

=>



```
chain nodes :
1 2 3 4 5 6 13 14
ring nodes :
7 8 9 10 11 12
chain bonds :
1-2 2-3 3-4 4-5 5-6 6-7 10-13 13-14
ring bonds :
7-8 8-9 9-10 10-11 11-12
stack bonds :
2-3 3-4 4-5 5-6 6-7 10-13 13-14
normalized bonds :
7-8 7-12 8-9 9-10 10-11 11-12
```

```
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS
```

11 STRUCTURE UPLOADED

```
=> s 11 sss sam
SAMPLE SEARCH INITIATED 09:22:25 FILE "REGISTRY"
SAMPLE SCREEN SEARCH COMPLETED - 43 TO ITERATE
100.0% PROCESSED 43 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
MATCH **COMPLETE**
PROJECTED ITERATIONS: 467 TO 1253
PROJECTED ANSWERS: 3 TO 163
```

```
12 3 SEA SSS SAM L1
```

```
=> d sss
```

```
=> s 11 sss full
FULL SEARCH INITIATED 09:22:59 FILE "REGISTRY"
FULL SCREEN SEARCH COMPLETED - 765 TO ITERATE
100.0% PROCESSED 765 ITERATIONS 49 ANSWERS
SEARCH TIME: 00.00.01
```

```
13 49 SEA SSS FULL L1
```

```
=> s 13 15 L3
```

```
=> d ikib sss bitstr 1-
YOU HAVE REQUESTED DATA FROM 15 ANSWERS - CONTINUE? Y/(n)y
```

=>

=>



```
chain nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9
stack/match bonds :
6-7 7-8
chain bonds :
1-2 2-3 3-4 4-5 5-6 8-9
```

```
GLICE,Cy,Ry
```

```
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:CLASS 9:CLASS
```

15 STRUCTURE UPLOADED

```
=> s 15 sss sam
SAMPLE SEARCH INITIATED 09:41:02 FILE "REGISTRY"
SAMPLE SCREEN SEARCH COMPLETED - 408 TO ITERATE
100.0% PROCESSED 408 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
MATCH **COMPLETE**
PROJECTED ITERATIONS: 6949 TO 9371
PROJECTED ANSWERS: 6 TO 200
```

```
16 4 SEA SSS SAM L5
```

```
=> d sss
```

```
=> s 15 sss full
FULL SEARCH INITIATED 09:41:46 FILE "REGISTRY"
FULL SCREEN SEARCH COMPLETED - 7813 TO ITERATE
```

```

100 ON PROCESSED      7813 ITERATIONS      123 ANSWERS
SEARCH TIME: 00:00:03

L1      123 SEA SSS PUL L3

=> # 17      39 L7
L8
=> d ikib aka bitatr 1-
YOU HAVE REQUESTED DATA FROM 39 ANSWERS - CONTINUE? Y/N)y
=>

```



```

chain nodes :
1 2 3 4 5 6 7 8 9 11 12
chain bonds :
1-2 1-12 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-11
exact/forth bonds :
6-7 7-8
exact bonds :
1-2 1-12 2-3 3-4 4-5 5-6 8-9 9-11

```

GlCb/Cy/Ry

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 11:CLASS 12:CLASS

```

L1 STRUCTURE UPLOADED

```

=> # 11 sss sam
SAMPLE SEARCH INITIATED 10:27:14 FILE "REGISTRY"
SAMPLE SCREEN SEARCH COMPLETED - 72 TO ITERATE

100 ON PROCESSED      72 ITERATIONS      1 ANSWERS
SEARCH TIME: 00:00:03

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: BATCH **COMPLETE**
PROJECTED ANSWERS: 931 TO 1949
PROJECTED ANSWERS: 1 TO 80

```

L2 1 SEA SSS SAM L5

```

=> # 11 sss full
FULL SEARCH INITIATED 10:27:46 FILE "REGISTRY"
FULL SCREEN SEARCH COMPLETED - 1451 TO ITERATE

100 ON PROCESSED      1451 ITERATIONS      44 ANSWERS
SEARCH TIME: 00:00:01

```

L3 44 SEA SSS PUL L1

=> # 13 13 L3

```

=> d ikib aka bitatr 1-
YOU HAVE REQUESTED DATA FROM 11 ANSWERS - CONTINUE? Y/N)y
=>

```



```

chain nodes :
1 2 3 4 5 6 7 9
chain bonds :
1-2 1-9 2-3 3-4 4-5 5-6 6-7
exact/forth bonds :
3-9 4-5 5-6
exact bonds :
1-2 2-3 3-4 6-7

```

GlCb/Cy/Ry

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS

```

L1 STRUCTURE UPLOADED



```

=> a 11 see sam
SAMPLE SEARCH INITIATED 12:55:09 FILE 'REGISTER'
FULL SCREEN SEARCH COMPLETED - 623 TO ITERATE
100 0% PROCESSED 623 ITERATIONS 2 ANSWERS
SEARCH TIME: 00:00:01

FULL FILE PROJECTIONS: ONLINE ***COMPLETE**
BATCH ***COMPLETE**
PROJECTED ITERATIONS: 10963 TO 13957
PROJECTED ANSWERS: 2 TO 124

L3 2 SEA SEE SAM L3

=> a 11 see full
FULL SEARCH INITIATED 12:55:14 FILE 'REGISTER'
FULL SCREEN SEARCH COMPLETED - 11729 TO ITERATE
100 0% PROCESSED 11729 ITERATIONS 53 ANSWERS
SEARCH TIME: 00:00:01

L3 53 SEA SEE FUL L3

=> a 13
L4 29 L3

=> d ikib aka h1atr 1-
YOU HAVE REQUESTED DATA FROM 20 ANSWERS - CONTINUE? Y/(N)iy

=>

```



```

chain nodes :
2 3 4 5 6 7 8 9 10 11 12 13 14 15 20 24
chain bonds :
2-3 2-24 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15 15-20
exact/rotr bonds
2-3 2-24 8-9 9-10 15-20
exact bonds :
3-4 4-5 5-6 6-7 7-8 10-11 11-12 12-13 13-14 14-15

GLIC,Cy,Ry
GLIC,H,O,N,Cl,Br,F,I
GLIC,H,SI,Cy,Cy,Ry
Match level :
1:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 20:CLASS 24:CLASS

L5 STRUCTURE UNLOADED

=> a 15 see full
FULL SEARCH INITIATED 13:07:29 FILE 'REGISTER'
FULL SCREEN SEARCH COMPLETED - 13729 TO ITERATE
100 0% PROCESSED 13729 ITERATIONS 106 ANSWERS
SEARCH TIME: 00:00:01

L6 106 SEA SEE FUL L5

=> a 16
L7 32 L6

=> d ikib aka h1atr 1-
YOU HAVE REQUESTED DATA FROM 32 ANSWERS - CONTINUE? Y/(N)iy

=>

```



```

chain nodes :
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
chain bonds :
4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20
exact/rotr bonds
4-5 5-6 11-12 12-13 18-19 19-20
exact bonds :
6-7 7-8 8-9 9-10 10-11 13-14 14-15 15-16 16-17 17-18

```

```

G1C,H,Cy,Ry
G2C,H,C,N,Cl,Br,F,I
G3C,H,Si,Ch,Cy,Ry

Match level :
4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

```

```

L8      STRUCTURE UPLOADED

=> # 18 *** full
FULL SEARCH INITIATED 15:20:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11780 TO ITERATE

100 0% PROCESSED 11780 ITERATIONS          TO ANSWERS
SEARCH TIME: 00:00:01

L8      TO SEA SEE PUL L8

=> # 19
L10     22 L8

=> d link abs hieat 1-
YOU HAVE REQUESTED DATA FROM 22 ANSWERS - CONTINUE? Y/(N)y

=>

```



```

chain nodes :
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 26 27 28 29 30 31 32 33
chain bonds :
4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 12-14 13-14 14-15 15-16 16-17 17-18 18-19 19-20 26-27 27-28 29-29 29-30 30-31 31-32 32-33
stack/open bonds :
4-5 5-6 11-12 12-13 12-26 19-19 19-20 31-32 32-33
stack bonds :
6-7 7-8 8-9 9-10 10-11 13-14 14-15 15-16 16-17 17-18 26-27 27-28 28-29 29-30 30-31

```

```

G1C,H,Cy,Ry
G2C,H,C,N,Cl,Br,F,I
G3C,H,Si,Ch,Cy,Ry

Match level :
4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

```

```

L11     STRUCTURE UPLOADED

=> # 111 *** full
FULL SEARCH INITIATED 13:30:22 FILE 'REGISTRY'
SCREENING
SCREENING
FULL SCREEN SEARCH COMPLETED - 11407 TO ITERATE

100 0% PROCESSED 11407 ITERATIONS          2 ANSWERS
SEARCH TIME: 00:00:14

L12     2 SEA SEE PUL L11

=> # 112
L13     2 L12

=> d link abs hieat 1-
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N)y

=>

```

```

FILE 'HOME' ENTERED AT 15:53:37 ON 18 DEC 2009

=>

```

```

chain nodes :
4 5 6 7 8 9 10 11
Chain bonds :
4-5 5-6 6-7 6-10 7-8 7-11 8-9
exact/over bonds :
6-10 7-11
exact bonds :
4-5 5-6 6-7 7-8 8-9

O1C,Cy,Cy,By
O2C,C,H,O,H,Cl,Br,F,I
O3C,C,H,Si,Cy,Cy,By
O4H,H,H

Match level :
4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS

```



```

L1 STRUCTURE UPLOADED

=> a 11 sss full
FULL SEARCH INITIATED: 1516:41 FILE "REGISTER"
FILE SCREEN SEARCH COMPLETED = 7813 TO TREAT
100 0% PROCESSED 7813 ITERATIONS 3088 ANSWERS
SEARCH TIME: 00 00 01

L2 3088 SEA SSS FULL L1

=> a 12
L3
=> 12 and (electroluminescence or electroluminescent or luminescent or (light emitting) or OLED)
26479 ELECTROLUMINESCENCE
10 ELECTROLUMINESCENTS
26479 ELECTROLUMINESCENCE
5 ELECTROLUMINESCENCE OR ELECTROLUMINESCENTS
26479 ELECTROLUMINESCENCE OR ELECTROLUMINESCENTS
90044 ELECTROLUMINESCENT
8 ELECTROLUMINESCENTS
90047 ELECTROLUMINESCENT OR ELECTROLUMINESCENTS
65004 LUMINESCENT
10 LUMINESCENTS
65000 LUMINESCENT
(LUMINESCENT OR LUMINESCENTS)
133431 LIGHT
12618 LIGHTS
1338149 LIGHT
(LIGHT OR LIGHTS)
140113 EMITTING
219 EMITTING
140157 EMITTING
(EMITTING OR EMITTING)
76113 LIGHT EMITTING
(LIGHT (N)EMITTING)
7493 OLED
3722 OLEDs
9388 OLED
(LOLED OR OLEDs)
L4 3 L3 AND ELECTROLUMINESCENCE OR ELECTROLUMINESCENT OR LUMINESCENT
OR (LIGHT EMITTING) OR OLED)

=> d ibib sss bitstr 1=
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N) y

=> 12 and (electroluminescence or electroluminescent or luminescent or (light emitting) or OLED or (non linear optics) or NLO)
26479 ELECTROLUMINESCENCE
10 ELECTROLUMINESCENTS
26479 ELECTROLUMINESCENCE
5 ELECTROLUMINESCENCE OR ELECTROLUMINESCENTS
26479 ELECTROLUMINESCENCE OR ELECTROLUMINESCENTS
90044 ELECTROLUMINESCENT
8 ELECTROLUMINESCENTS
90047 ELECTROLUMINESCENT OR ELECTROLUMINESCENTS
65004 LUMINESCENT
10 LUMINESCENTS
65000 LUMINESCENT
(LUMINESCENT OR LUMINESCENTS)
133431 LIGHT
12618 LIGHTS
1338149 LIGHT
(LIGHT OR LIGHTS)
140113 EMITTING
219 EMITTING
140157 EMITTING
(EMITTING OR EMITTING)
76113 LIGHT EMITTING

```

```

          (LIGHT(EMITTING))
7491 OLED
3722 OLEDs
9328 OLED
      (OLED OR OLEDs)
1110208 NON
39 NONs
1110231 NON
      (NON OR NONs)
710151 LINEAR
74 LINEARS
710191 LINEAR
      (LINEAR OR LINEARS)
53122 OPTICS
531 NON LINEAR OPTICS
      (NON(!!)LINEAR(!)OPTICS)
7901 RED
19 REDs
7920 RED
      (RED OR REDs)
L5      6 L5 AND (ELECTROLUMINESCENCE OR ELECTROLUMINESCENT OR LUMINESCENT
      OR (LIGHT EMITTING) OR OLED OR (NON LINEAR OPTICS) OR RED)

=> d ikib aka h1atx 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N)y
=>

```

Connecting via Winsock to STN

```

Welcome to STN International! Enter a/x
LOGINID:SEPTEMBER1794
PASSWORD:
TERMINAL ENTER 1, 2, 3, OR F1+2

* * * * * Welcome to STN International * * * * *

=>

```



```

chain nodes :
1 2 3 4 5 6 7 8 9 11
chain bonds :
1-2 2-11 2-3 3-4 4-5 5-6 6-7 7-8 8-9
exact/mom bonds :
1-11 6-7 7-8
exact bonds :
1-2 2-3 3-4 4-5 5-6 8-9

```

GLICH,Cy,Ry

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:CLASS 9:CLASS 11:Atom

```

L1 STRUCTURE UPLOADED

```

=> # 11 *** full
FULL SEARCH INITIATED 12:23:04 FILE 'ANSWERY'
FULL SCREEN SEARCH COMPLETED - 12029 TO ITERATE 106 ANSWERS
120.0% PROCESSED 12029 ITERATIONS
SEARCH TIME= 00:03:07

```

L2 106 SEA SES FUL L1

```

=> # 12
L3 32 L2

```

```

=> d ikib aka h1atx 1-
YOU HAVE REQUESTED DATA FROM 32 ANSWERS - CONTINUE? Y/(N)y

```

L5 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2016 ACS on STN

Accession Number
20091099083 CAPLUS Full-text

Document Number
151508432

Title
Hybrid Conjugated Organic Oligomers Consisting of Oligodiacetylene and Thiophene Units: Synthesis and Optical Properties
Author-Inventor

Peck, Greger S; van Grujthuisen, Nity; van Doorn, Reinbert H.; van Lagen, Barand; Sudhoefer, Ernst J. R.; Zuilhof, Han
Patent Assignee/Corporate Source

Laboratory of Organic Chemistry, Wageningen University, Dreijenplein 8, Wageningen, 6703 HB, Neth.

Source Chemistry—A European Journal (2009), 15(36), 9083-9096, 09083/1-09083/19 CODEN: CEUJED, ISSN: 0947-6539

Document Type

Journal

Language

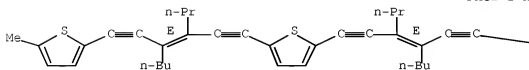
English

Abstract

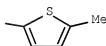
Hit Structure

CAS Registry Number
1192820-79-3 CAS#

Chemical or Trade Name
Thiophene, 2,5-bis[(3E)-4-[2-(5-methyl-2-thienyl)ethynyl]-3-propyl-3-octen-1-yn-1-yl]- (CA INDEX NAME)



PAGE 1-A



PAGE 1-B

L9 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2009 76616 CAPLUS Fulltext

Document Number
180-1571-0

Title

Title Risk and burden of meningitis: A theoretical study

Author/Inventor

Ramos, Estrella; Guadarrama, Patricia; Teran, Gerardo; Fomine, Sergio; Bergueño

Patent Assignee/Corporate Source

Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, México, 04510, México

Source

Journal of Physical Organic Chemistry (2009), 22(1), 9–16 CODEN JPOCEE; ISSN: 0894-3230

Document Type

Journal

Language

English

Abstract

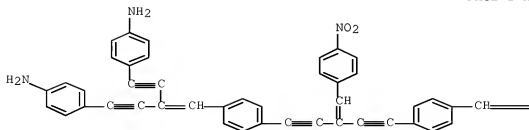
The electronic properties of the ground state, unexcited and relaxed first excited states of push-pull hyperbranched moles bearing amino and nitro terminal groups have been studied at B3LYP/6-31G(d)/HF/6-31G(d), TD-B3LYP/6-31G(d) and TD-B3LYP/Ci-co-pvdz/Ci-6-31G(d) levels of theory, resp. It was demonstrated that dendritic architecture of push-pull moles favors the charge transfer in the excited state compared to linear moles. The possibility of adopting a plane conformation is an important condition for the charge transfer in an excited state. According to the calculations, 1:1 ratio of donor and acceptor groups is another important precondition for the charge transfer in the excited state. In case of excess of nitro groups over the amino, some of the excitations belonging to the $\pi \rightarrow \pi^*$ transition favor the charge transfer in the excited state. **Keywords:** dendritic moles, hyperbranched moles, charge transfer.

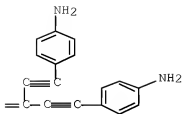
Hydrolysis

CAS Registry Number
1107616-71-6 CASPLUS

Chemical or Trade Name
Benzenamine, 4,4'-[3-{[6-[5-[4-[4-(4-aminophenyl)-2-[2-(4-aminophenyl)ethynyl]-1-buten-3-yn-1-yl]phenyl]-3-[4-nitrophenyl]methylene]-3,4-pentadiyn-1-yl]phenyl]methylene]-1,4-pentadiyne-1,5-diylium- (CA INDEX)

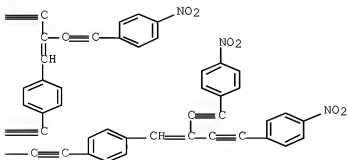
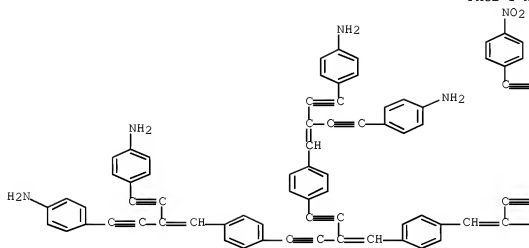
PAGE 1-A





CAS Registry Number
1107616-72-7 CASL05

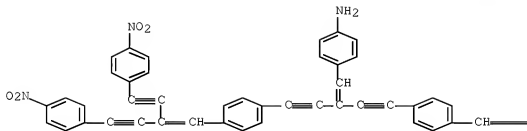
Chemical or Trade Name
Benzeneamine, 4,4'-bis-[4-[[4-[[4-(4-aminophenyl)-2-[2-(4-aminophenyl)ethynyl]-3-buten-3-yn-1-yl]phenyl]-2-[4-[[4-[[4-(4-nitrophenyl)-2-[2-(4-nitrophenyl)ethynyl]-3-buten-3-yn-1-yl]phenyl]-2-[2-[4-[[4-(4-nitrophenyl)-2-[2-(4-nitrophenyl)ethynyl]-3-buten-3-yn-1-yl]phenyl]ethynyl]-3-buten-3-yn-1-yl]phenyl]ethynyl]-1,4-pentadiyn-1-yl]phenyl]ethynyl]-1,4-pentadiyn-1,5-diyl]biphenyl-4,4'-diyl]bis- (CA 2002X NAME)



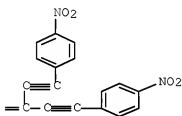
CAS Registry Number
1107616-13-8 CAPLUS

Chemical or Trade Name
Benzonamine, 4-[4-[4-(4-(4-nitrophenyl)ethynyl)-2-[2-(4-nitrophenyl)ethynyl]-1-buten-3-yn-1-yl]phenyl]-2-[2-[4-(4-nitrophenyl)-2-[2-(4-nitrophenyl)ethynyl]-1-buten-3-yn-1-yl]phenyl]ethynyl]-1-buten-3-yn-1-yl]-1-ol (CA 35262 NAME)

PAGE 1-A



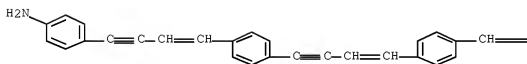
PAGE 1-B



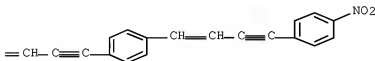
CAS Registry Number
1107616-16-1 CAPLUS

Chemical or Trade Name
Benzonamine, 4-[4-[4-(4-[4-(4-(4-nitrophenyl)-1-buten-3-yn-1-yl]phenyl)-2-buten-3-yn-1-yl]phenyl]-3-buten-1-yn-1-yl]phenyl]-3-buten-1-yn-1-yl]-1-ol (CA 35262 NAME)

PAGE 1-A



PAGE 1-B



L3 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2016 ACS on STN
Accession Number
2008 85060 CAPLUS ESI(30)
Document Number
148 820471

Title
Tetrafluorene Conjugates for All-Organic Photovoltaics
Author/Inventor
Fernandez, Gustavo; Sanchez, Luis; Veldman, Dirk; Wiers, Marlijn M.; Alencia, Carmen; Guld, Dirk M.; Janssen, Rene A. J.; Marin, Nazario
Patent Assignee/Corporate Source
Departamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, Madrid, 28040, Spain
Source

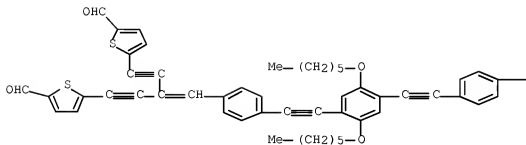
The synthesis of two new tetrafluorene nanocomposites in which two C60 units are covalently connected through different π -conjugated oligomers (oligo(*p*-phenylene ethynylene) and oligo(*p*-phenylene vinylene)) is described. The photochemical response of these C60-based conjugates was evaluated by using them as the only active material in organic solar cells, showing a low photovoltaic performance. Photophysics studies in solution demonstrated a very fast (approx. 10 ps) deactivation of the singlet excited state of the central core unit to produce both charge-separated species (i.e., C60⁻-oligomer⁺ and C60⁺-oligomer⁻ singlet excited states). The charge-separated state accompanies partly in the C60 centered singlet state that undergoes subsequent intersystem crossing. Photophysics studies carried out in films support these data, exhibiting long-lived triplet excited states. For both tetrafluorene arrays, the low yield of long-lived charge carriers in thin films accounts for the limited photovoltaic response. On the contrary, utilizing the oligo(*p*-phenylene ethynylene) centered precursor aldehyde as an electron donor and antennae unit and mixing with the well-known C60 derivative PCBM, the photophysics studies in films show the formation of long-lived charges. The photovoltaic devices constructed from these mixts, showed a relatively high photocurrent of 2 mA/cm². The sharp contrast between the nanocomposites and the phis. blends tentatively was attributed to improved charge dissociation and the collection of more favorable energy levels in the blends as a result of partial aggregation of both of the components.

HR Structure

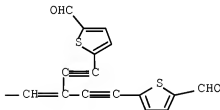
CAS Registry Number
 1022991-33-2 CAPLUS

Chemical or Trade Name
 2-thiophenecarboxaldehyde, 5,5'-bis-[(2,5-bis(hexaalkyl)-1,4-phenylene)bis(2,1-ethynediyl)-6,1-phenylene-1,2-[2,5-furandiyl-2-thienyl)ethynyl]-3-buten-3-yn-4,4'-diyl]]bis- (CA-100EX 3XAN6)

PAGE 1-A



PAGE 1-B



OR CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

LA ANDWER 4 OF 32 CAPLUS COPYRIGHT 2014 ACS on STN

Accession Number
 2008 244421 CAPLUS Fulltext
 Document Number
 148-403937

Title
 Triphenylphosphine Incorporation Reactions of Dymyl Complexes Containing a Triphenylphosphine Fragment and Isomerization to Ruthenacyclobutylidene Complexes
 Author/Inventor
 Ando, Yasuhiro, Asagiri, Taisi, Tanaka, Che, Tashita, Shinya, Tsai, Masao, Ikeda, Kenta, Uemoto, Kenichi, Onishi, Masayoshi
 Patent Assignee/Corporate Source
 Department of Applied Chemistry, Faculty of Engineering, Nagasaki University, Nagasaki, 852-8521, Japan
 Source
 Organometallics (2008), 27(6), 1227-1233 CODEN: ORIND7; ISSN: 0276-7393

Document Type
 Journal
 Language
 English
 Abstract

Neosyltetrafluorene (*n*-butylidene) complexes having a Ta ligand (Ta = 2-Bi(2-oxo-1,3-dioxol-5-yl) were prepared, and their reactivities toward PPh₃ incorporation in the presence of BF₃·OEt₂ were described. The PPh₃ incorporation of monosyltetrafluorene complexes, TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)Me/NO (1) resulted in the β -phosphonocarbonyl complex (E)-[TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)Me/NO]BF₄ (2-BF₄), whereas when bis(syltetrafluorene) TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)C(=O)Me/NO (3) was treated, mono- and bis(β -phosphonocarbonyl) complexes (E)-[TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)C(=O)Me/NO]BF₄ (4-BF₄) and (E)-[TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)C(=O)C(=O)Me/NO]BF₄ (5-BF₄) were obtained depending on the reaction conditions. On the other hand, an unsymmetrical bis(syltetrafluorene) complex, TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)C(=O)Me/NO (6), was allowed to react with PPh₃ in the presence of the protic acid to give the β -phosphonocarbonyl [TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)C(=O)Me/NO]BF₄ (7-BF₄). Interestingly, thermal isomerization of 7-BF₄ to a ruthenacyclobutylidene complex [TaPh₂CH(Ci)C(=O)C(=O)C(=O)C(=O)Me/NO]BF₄ (8-BF₄) was observed.

HR Structure

CAS Registry Number
 1015411-23-6 CAPLUS

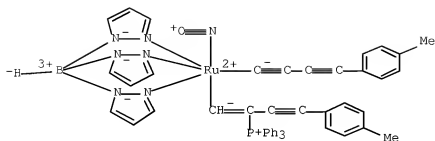
Chemical or Trade Name
 Ruthenium(II+), [hydrotris(3-thiopyranol-2-yl)]borate(1-)-
 H2O, H2O*, H2O**14-(4-methylphenyl)-1,3-isotriaz-yn-3-

yl|125|-4-[6-methylphenyl]-2-[triphenylphosphono]-1-buten-3-yn-1-yl|nitroaryl-, (OC-6-241)-, tetrafluoroborate(1-)- (1:1) (CA INDEX NAMES)

CM

1

CMR 1015477-26-5
CMF C10 R40 B 97 O P Ru
CCI CCB



CM

2

CMR 14874-70-5
CMF B F4
CCI CCB



CC.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L3 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2007110360 CAPLUS Full-text

Document Number
14811306

Title

Formation and Structural and Dynamic Features of Atropisomeric η^2 -Iminoacyl Zirconium Complexes

Author/Inventor

Speck, Patrick; Kehr, Gerald; Kehr, Seda; Froehlich, Roland; Erker, Gerhard

Patent Assignee/Corporate Source

Organisch-Chemisches Institut, Universitaet Muenster, Muenster, 48149, Germany

Source

Organometallics (2007), 26(23), 5612-5620 CODEN: ORGMDD; ISSN: 0276-7333

Document Type

Journal

Language

English

Abstract

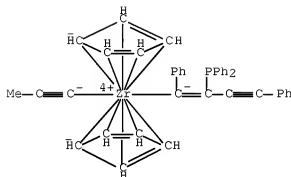
The Cp₂ZrCl₂CPh₂C(PX)₂ (p-bond CPh) complexes 7a (X = Ph) and 10 (X = Csp²) insert tert-butylisocyanide into the Zr-C(sp²) σ bond to yield the iminoacyl zirconocene complexes, Cp₂Zr-C(C)(NHC(=O)CPh)₂CPh₂C(PX)₂ C(p-bond CPh) 13a and 13b. X-ray crystal structure anal. of complexes 13a and 13b revealed a chiral atropisomeric structure with a torsion angle of 74.8(3)° (13a) and 72.9(5)° (13b), resp., around the central iminoacyl(alkenyl) C(sp²)-C(sp²) σ bond. In solution an analogous chiral structure is observed. The barrier of interconversion of the enantiomeric atropisomers of 13a and 13b was determined at 327 K) = 14.9 ± 0.3 kcal mol⁻¹ (13a) and 15.8 thermid (327 K) = 14.9 ± 0.3 kcal mol⁻¹ (13b) by temperature-dependent dynamic NMR spectroscopy. Reaction of 7a and 10 with methylallene followed by treatment with Si(CH₃)₃ gave the corresponding cationic zirconocene complexes Cp₂Zr⁺(THF)(CPh₂C(PX)₂C(p-bond CPh)(Me)(NHC(=O)CPh)) 12a and 12b. These complexes took up 2 mol equiv of tert-butylisocyanide to yield the cationic N-inside η^2 -iminoacyl zirconocene systems 14a and 14b as nitrile adducts. The cationic complexes 14a and 14b are also easily chiral. The barriers of enantiomerization (ΔG^\ddagger thermid (288 K) = 13.1 ± 0.3 kcal mol⁻¹ (14a), ΔG^\ddagger thermid (283 K) = 13.4 ± 0.3 kcal mol⁻¹ (14b)) were also determined by dynamic NMR spectroscopy.

HR Structure

CAS Registry Number
551653-65-0 CAPLUS

Chemical or Trade Name

Zirconium, bis[η^2 -(2,4-cyclopentadien-1-yl)][(1E)-2-(diphenylphosphino)-1,4-diphenyl-3-buten-3-yl]-1-yl]-3-propen-1-yl]- (CA INDEX NAME)



OR CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L3 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2007105140 CAPLUS Full-text

Document Number
14748227

Title

Convenient synthesis of (1-propenyl)arenes through a one-pot double elimination reaction, and their conversion to enynes

Author/Inventor

An, De-Lu; Zhang, Zhiyang; Orita, Akihito; Minayama, Hidetaka; Otsu, Junzo

Patent Assignee/Corporate Source

Department of Chemistry, College of Chemistry and Chemical Engineering, Hunan University, Changsha, 410002, Peop. Rep. China

Source

Science (2007), 1(2), 1909-1912 CODEN: SCLNLS; ISSN: 0956-5214

Document Type

Journal

Language

English

Abstract

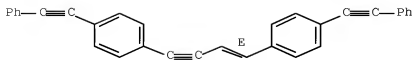
A series of prop-1-enyl arenes were prepared by one-pot double elimination reaction of EtSO₂Ph, aromatic aldehyde, and OPOCEt₂ in THF with a base such as BuLi and tBuOK. A propargyl lithium, which was prepared by treatment of prop-1-ynyl arene with BuLi in the presence of 1,3-dimethyl-2,4,5,6-tetrahydro-2(1H)-pyrimidinone (DMPU), reacted with aromatic aldehyde, OPOCEt₂ and tBuOK to afford 4-arylbui-3-en-1-ynyl arene. Photoluminescence of the enynes thus prepared was recorded both in solution and in the solid state.

HR Structure

CAS Registry Number
951760-10-2 CAPLUS

Chemical or Trade Name

Benzene, 1,1'-(1E)-1-buten-3-ynyl-1,4'-diylbis[4-(2-phenylethynyl)]- (CA INDEX NAME)



L3 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2016 ACS on STN

Accession Number
200746877 CAPLUS Fulltext
Document Number
148284829

Title
Synthesis of smallest unit model of graphite intercalation compound and its possibility

Author/Inventor
Ogochi, Senuke
Patent Assignee/Corporate Source
Department of Applied Chemistry, Faculty of Engineering, Osaka University, Japan

Source
Asahi Gensetsu Zaiden Joshi Kenkyu Seika Hokoku (2006) 01 03 0711-01 03 0718 CODEN AGSHEN, ISSN: 0919-9179

Document Type
Journal (computer optical disk)

Language
Japanese

Abstract

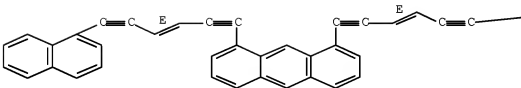
Graphite is perhaps the simplest layered structure. Many substances can be intercalated between layers of graphite. Upon intercalation, the graphite layers moved apart somewhat due to the intercalated atom. However, the layers still keep parallel to each other, which would be the key for the formation of intercalation compounds. Thus, compounds having two aromatic rings, which can change the distance between the rings and keep parallel to each other, were designed and synthesized. The target compound was 1,8-bis[6-(1-naphthyl)ethynyl]-5-hexene-1,3-diyne[anthracene].

Hit Structure

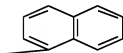
CAS Registry Number
1697602-95-9 CAPLUS

Chemical or Trade Name
Anthracene, 1,8-bis[6-(1-naphthyl)ethynyl]-3-hexene-1,3-diyne-1-y1- (CA
120263 00061)

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PAGE 1-B



L3 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2016 ACS on STN

Accession Number
200882014 CAPLUS Fulltext
Document Number
144334199

Title
Light harvesting tetrafullerene nanorarray for organic solar cells

Author/Inventor
Alamiz, Carmen M., Fernandez, Gustavo, Sanchez, Luis, Martin, Nazario, Darias, Ines Sa, Wlesek, Marlin M., Jasson, Rene A. J., Rahman, G. M. Amirul, Guld, Dirk M.
Patent Assignee/Corporate Source
Departamento de Quimica Organica, Facultad de Ciencias Quimicas, Universidad Complutense, Madrid, E-28040, Spain

Source
Chemical Communications (Cambridge, United Kingdom) (2006), (5), 3143-316 CODEN CHCOF3, ISSN: 1359-7345

Document Type
Journal

Language
English

Abstract

A light absorbing π -conjugated oligomer tetrafullerene nanorarray was synthesized and its photophysics study reveals an intramolecular energy transfer. A photovoltaic device fabricated from this nanorarray and poly(3-hexythiophene) shows an external quantum efficiency of 15% at 660 nm.

Hit Structure

CAS Registry Number
980486-14-6 CAPLUS

Chemical or Trade Name
Hexaethynyl, 4,4'-[1,2,3-bis(4-ethynyl)oxy]-2,4-diphenyl[ene]bis[2,1-ethynylidene-4,1-phenylene]bis[2-[(4-ethynyl)ethynyl]-3-buten-2-ynediyl]]bis[4-(9CI)] (CA 120165 00061)

Accession Number
20051004991 CAPLUS Full-text
Document Number
143306181

Title
Process for preparation of π -conjugated aromatic ring-containing acetylene derivatives as organic electroluminescent devices

Author/Inventor
Sato, Fumio, Takayama, Yuuki
Patent Assignee/Corporate Source
Nissan Chemical Industries, Ltd., Japan

Source
PCT Int. Appl., 82 pp. CODEN: POCO22

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
WO 200505176	A1	20050915	WO 2005-JP3910	20050308
US 20070176164	A1	20070802	US 2007-091950	20070307

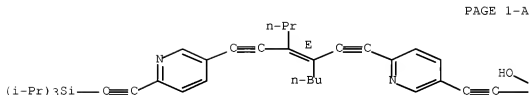
Abstract

This invention pertains to a method for producing π -conjugated aromatic ring-containing acetylene derivs. via coupling reaction in the presence of palladium and Cu(I) catalysts. For example, the compound I was prepared in a multi-step synthesis in good yield. The title compds. are useful as electroluminescent devices.

HI Structure

CAS Registry Number
740920-64-4 CAPLUS

Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[(3E)-3-butyl-4-[2-[6-[2-[tris(1-methylethyl)isilyl]ethynyl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]-2-methyl- (CA INDEX NAME)



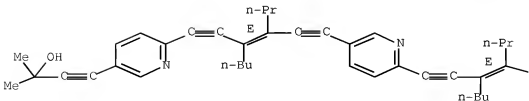
PAGE 1-A

PAGE 1-B

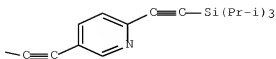


CAS Registry Number
740920-65-5 CAPLUS

Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[(3E)-3-butyl-4-[2-[6-[2-[tris(1-methylethyl)isilyl]ethynyl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]-2-methyl- (CA INDEX NAME)

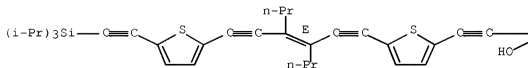


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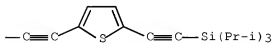
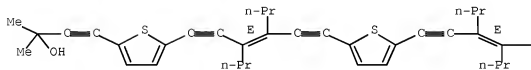
CAS Registry Number
740810-67-7 CAP108

Chemical or Trade Name
3-Butyn-2-ol, 2-methyl-4-[5-[[3E]-3-propyl-4-[[5-[[tris(1-methylethyl)silyl]ethynyl]-2-thienyl]ethynyl]-3-hepten-1-yn-1-yl]-2-thienyl]- (CA INDEX NAME)

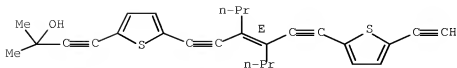


CAS Registry Number
740810-68-8 CAP108

Chemical or Trade Name
3-Butyn-2-ol, 2-methyl-4-[[5-[(3E)-3-propyl-4-[[5-[(3E)-3-propyl-4-[[5-[[tris(2-methyl-ethyl)silyl]ethyl]-2-thienyl]ethyl]-3-hepten-1-yn-1-yl]-2-thienyl]ethyl]-3-hepten-1-yn-1-yl]-2-thienyl]- (CA INDEX NAME)

CAS Registry Number
864683-96-5 CAP108

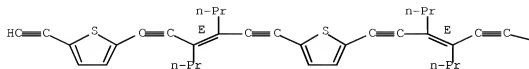
Chemical or Trade Name
3-Butyn-2-ol, 4-[5-[(3E)-5-ethyl-4-[2-(5-ethynyl-2-thienyl)ethynyl]-3-propyl-3-penten-1-yn-1-yl]-2-thienyl]-2-methyl- (CA INDEX NAME)



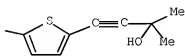
CAS Registry Number
864851-37-6 CML/OS

Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[[3E]-4-[2-[3-[[3E]-4-[2-(5-ethynyl-2-thienyl)ethynyl]-3-propyl-3-hepten-1-yn-1-yl]-2-thienyl]ethynyl]-3-propyl-3-hepten-1-yn-1-yl]-2-thienyl]-2-methyl- (CA INDEX NAME)

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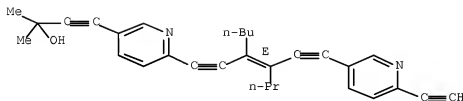


PAGE 1-B



CAS Registry Number
864854-02-5 CML/OS

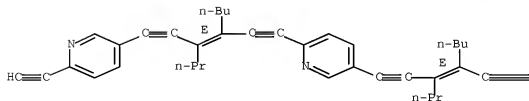
Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[[3E]-3-butyl-6-[2-(6-ethynyl-3-pyridinyl)ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]-2-methyl- (CA INDEX NAME)



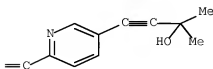
CAS Registry Number
864854-02-6 CML/OS

Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[[3E]-3-butyl-6-[2-(6-[[3E]-3-butyl-6-[2-(6-ethynyl-3-pyridinyl)ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl)ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]-2-methyl- (CA INDEX NAME)

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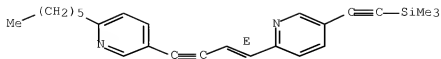
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CAS Registry Number

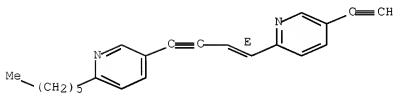
864654-11-7 CAS/LDS

Chemical or Trade Name
Pyridine, 2-[(1R)-4-(6-hexyl-3-pyridinyl)-1-buten-3-yn-1-yl]-5-[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



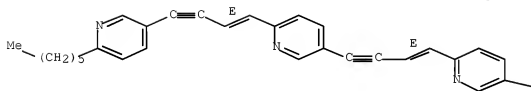
CAS Registry Number
864654-12-8 CAS/LDS

Chemical or Trade Name
Pyridine, 5-ethynyl-2-[(1R)-4-(6-hexyl-3-pyridinyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



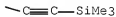
CAS Registry Number
864654-13-9 CAS/LDS

Chemical or Trade Name
Pyridine, 2-[(1R)-4-(6-hexyl-3-pyridinyl)-1-buten-3-yn-1-yl]-5-[(1R)-4-[5-[2-(trimethylsilyl)ethynyl]-2-pyridinyl]-3-buten-1-yn-1-yl]- (CA INDEX NAME)



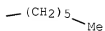
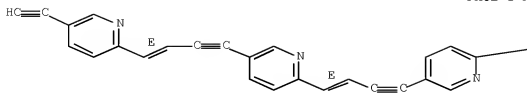
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PAGE 1-B



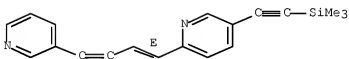
CAS Registry Number
864654-13-1 CAS/LDS

Chemical or Trade Name
Pyridine, 5-ethynyl-2-[(1R)-4-[6-[4-(6-hexyl-3-pyridinyl)-1-buten-3-yn-1-yl]-3-pyridinyl]-1-buten-3-yn-1-yl]- (CA INDEX NAME)



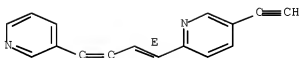
CAS Registry Number
864684-10-4 CAPLOS

Chemical or Trade Name
Pyridine, 3-[(1E)-4-(3-pyridinyl)-1-buten-3-yn-1-yl]-5-[3-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



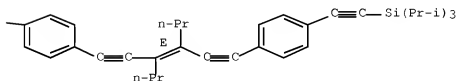
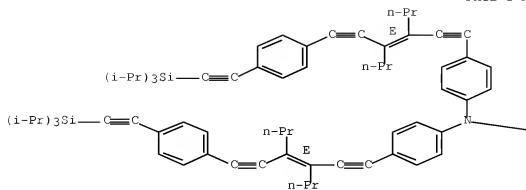
CAS Registry Number
864684-10-5 CAPLOS

Chemical or Trade Name
Pyridine, 3-ethynyl-2-[(1E)-4-(3-pyridinyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



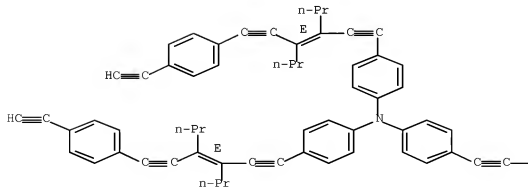
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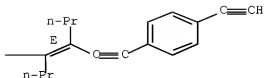
Chemical or Trade Name
Benzeneamine, N-[4-[(1E)-3,6-dipropyl-6-[4-[2-[tris(1-methylethyl)ethyl]ethynyl]phenyl]-3-hepten-1,3-diyne-1-yl]phenyl]-6-[(1E)-3-propyl-4-[2-[4-[2-[tris(1-methylethyl)ethyl]ethynyl]phenyl]ethynyl]-3-hepten-2-yn-2-yl]-4-[4-[(1E)-3-propyl-6-[3-[4-[3-[tris(1-methylethyl)ethyl]ethynyl]phenyl]ethynyl]-3-hepten-1-yn-1-yl]phenyl]]- (CA INDEX NAME)



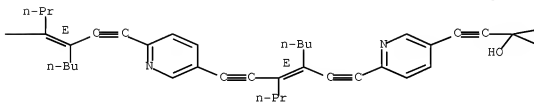
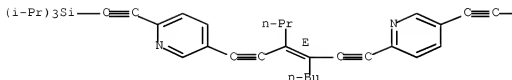
CAS Registry Number
864684-32-2 CAS175

Chemical or Trade Name
Benzonamine, N-[4-[(3E)-5-ethyl-6-[2-[(4-ethynylphenyl)ethynyl]-3-propyl]-5-penten-1-yn-1-yl]phenyl]-4-[(3E)-4-[2-[(4-ethynylphenyl)ethynyl]-3-propyl]-5-hepten-1-yn-1-yl]-N-[4-[(3E)-4-[2-[(4-ethynylphenyl)ethynyl]-3-propyl]-5-hepten-1-yn-1-yl]phenyl]- (CA 31086 10M6)





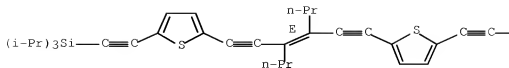
CAS Registry Number
740810-66-6 CAPLOS

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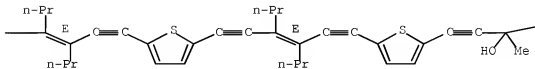
CAS Registry Number
740810-69-9 CHL108

Chemical or Trade Name
 3-Butyn-2-ol, 4-[5-[(3E)-4-[2-[5-[(3E)-5-ethynyl-4-[2-[5-[(3E)-5-ethynyl-3-propyl-4-[2-[3-[2-[3-[(2-methylthio)ethyl]ethyl]thienyl]-2-thienyl]ethynyl]-3-penten-1-yn-1-yl]-2-thienyl]thymyl]-3-propyl-3-penten-1-yn-1-yl]-2-thienyl]ethynyl]-3-propyl-3-hepten-1-yn-1-yl]-2-thienyl]-2-methyl- (CA
 INDEX NAME

PAGE 1-A



PAGE 1-B



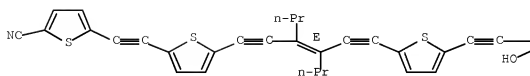
PAGE 1-C



CAS Registry Number
864884-02-7 CMLJDS

Chemical or Trade Name
2-Thiopyranethiopyran, 5-[2-(5-[(1E)-5-ethyl-4-[2-[(5-[(3-hydroxy-3-methyl-1-butyn-1-yl)-2-thienyl]ethynyl]-3-propyl]-3-penten-1-yn-1-yl]-2-thienyl]ethynyl]- (CA INDEX NAME)

PAGE 1-A

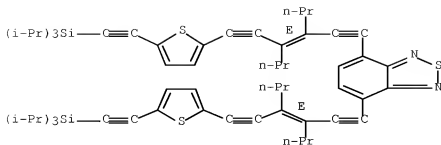


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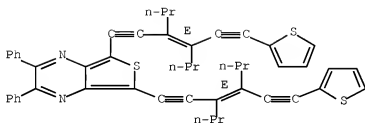
CAS Registry Number
864884-06-0 CMLJDS

Chemical or Trade Name
2,1,3-Benzothiadiazole, 4-[(1E)-3,4-diethyl-6-[5-[2-[tris(3-methylbutyl)ethyl]ethynyl]-2-thienyl]-3-benzene-5,5-diyne-1-yl]-7-[(1E)-3-propyl-4-[2-[2-[5-[2-[tris(3-methylbutyl)ethyl]ethynyl]-2-thienyl]ethynyl]-3-buten-1-yn-1-yl]- (CA INDEX NAME)



CAS Registry Number
864654-09-3 CASL/OS

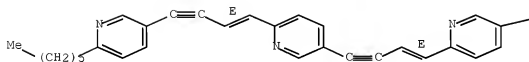
Chemical or Trade Name
Thieno[3,4-b]pyridine, 5-[(3E)-3,4-dipropyl-6-[(2-thienyl)-3-hexene-1,5-diylo-1-yl]-2,3-dithienyl]-3-[(3E)-3-propyl-6-[(2-thienyl)ethynyl]-3-hepten-1-yn-2-yl]- (CA INDEX NAME)



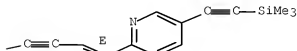
CAS Registry Number
864654-10-2 CASL/OS

Chemical or Trade Name
Pyridine, 2-[(1E)-4-{6-[(1E)-4-{6-[(1E)-4-{6-hexyl-3-pyridinyl}-1-buten-3-yn-1-yl]-3-pyridinyl}-1-buten-3-yn-1-yl]-3-pyridinyl}-1-buten-3-yn-1-yl]-3-[(2-trimethylsilyl)ethynyl]- (CA INDEX NAME)

PAGE 1-A

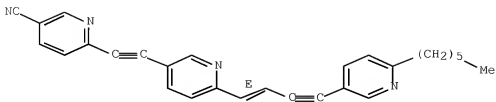


PAGE 1-B



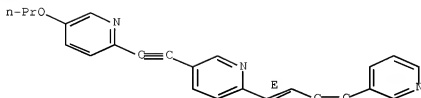
CAS Registry Number
864654-11-3 CASL/OS

Chemical or Trade Name
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CAS Registry Number
864694-20-5 CAPLIS

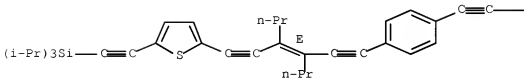
Chemical or Trade Name
Fyridine, 5-[2-(5-propoxy-2-pyridinyl)ethynyl]-2-[(3E)-4-(3-pyridinyl)-3-buten-3-yn-1-yl]- (CA INDEX 1006)



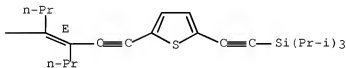
CAS Registry Number
864694-21-9 CAPLIS

Chemical or Trade Name
Thiophene, 2-[(3E)-3,4-diisopropyl-4-[(2-[5-[2-tria[1-methylethyl]silyl]ethynyl]-2-thienyl)ethynyl]-3-hepten-1-yn-1-yl]phenyl]-3-buten-1,5-diyne-3-yl]-5-[2-[(tri[1-methylethyl]silyl)ethynyl]- (CA INDEX 1006)

PAGE 1-A

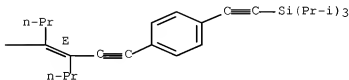
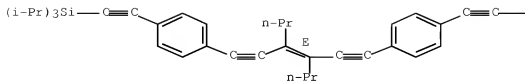


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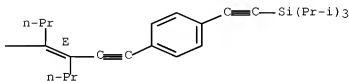
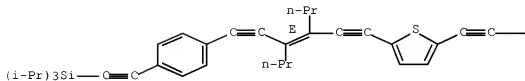
CAS Registry Number
864694-22-0 CAPLIS

Chemical or Trade Name
Benzene, 2-[(3E)-3,4-diisopropyl-4-[(2-[5-[2-tria[1-methylethyl]silyl]ethynyl]-2-thienyl)ethynyl]-3-hepten-1-yn-1-yl]phenyl]-3-buten-1,5-diyne-3-yl]-5-[2-[(tri[1-methylethyl]silyl)ethynyl]- (CA INDEX 1006)



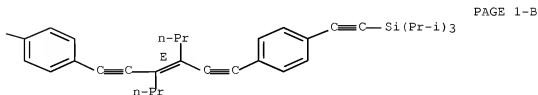
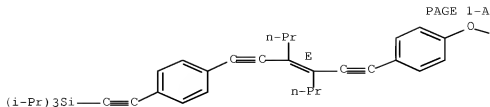
CAS Registry Number
864694-23-1 CAS#

Chemical or Trade Name
Thiophene, 2-[(3E)-3,4-dipropyl-6-[4-[2-[tris(1-methylethyl)ethyl]ethynyl]phenyl]-3-hexene-1,5-diyne-1-yl]-5-[(3E)-3-propyl-4-[2-[4-[2-[3-[tris(1-methylethyl)ethyl]ethynyl]phenyl]ethynyl]-3-hepten-2-yn-1-yl]]-1-yl] (CA INDEX NAME)



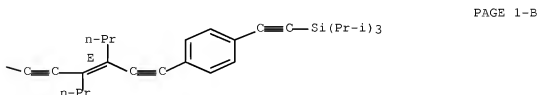
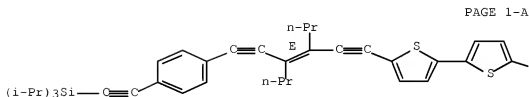
CAS Registry Number
864694-24-2 CAS#

Chemical or Trade Name
Silane, [oxybis[4,1-phenylene(3E)-3,4-dipropyl-3-hexene-1,5-diyne-6,3-diy]]-4,1-phenylene-2,3-ethynediyl]]bis[tris(1-methylethyl)]- (PCL) (CA INDEX NAME)



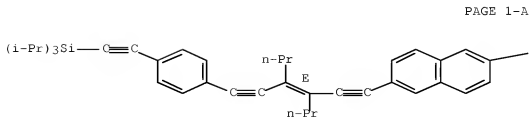
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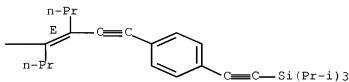
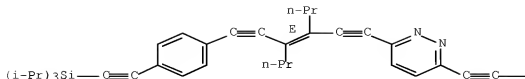
Chemical or Trade Name
2,2'-Bithiophene, 5-((3E)-3,4-dipropyl-6-[4-(2-trimethylsilyl-
methylethyl)ethynyl]phenyl)-5-hexene-1,3-diyn-1-yl)-5'-((3E)-3-
propyl-4-[2-[4-(2-trimethylsilyl)ethynyl]ethynyl]phenyl)ethynyl)-3-
hepten-1-yn-1-yl)- (CA INDEX SAME)



CAS Registry Number
864694-26-4 CAS103

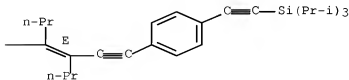
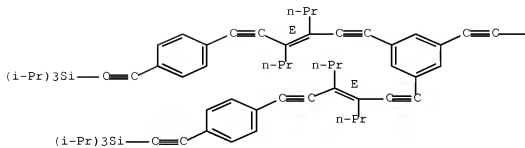
Chemical or Trade Name
Biphenyl, 2-((3E)-3,4-dipropyl-6-[4-(2-trimethylsilyl-
methylethyl)ethynyl]phenyl)-3-hexene-1,5-diyn-1-yl)-6-((3E)-3-propyl-
4-[2-[4-(2-trimethylsilyl)ethynyl]ethynyl]phenyl)ethynyl)-3-hepten-1-yn-
1-yl)- (CA INDEX SAME)





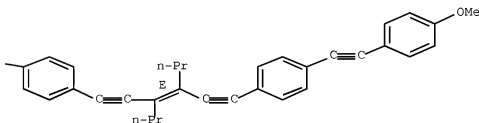
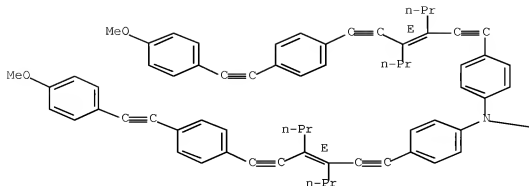
CAS Registry Number
864884-30-3 CASREG

Chemical or Trade Name
Benzene, 3-((13E)-3,4-diisopropyl-6-[(4-{2-[(4-methoxyphenyl)ethynyl]phenyl}-3-hexeno-1,5-dim-1-yl)-3-((3E)-5-ethyl-3-pentyn-1-yl)-2-(4-{2-[(4-methoxyphenyl)ethynyl]phenyl}ethynyl)-3-penteno-1-yn-1-yl]-5-((13E)-3-propyl-4-{2-(4-{2-[(4-methoxyphenyl)ethynyl]phenyl}ethynyl)-3-hepten-1-yn-1-yl})-1-yl)- (CAS 230008-1000)



CAS Registry Number
864884-33-3 CASREG

Chemical or Trade Name
Benzene, 3-((13E)-5-ethyl-4-{2-[4-{2-(4-methoxyphenyl)ethynyl]phenyl}ethynyl]-3-propyl-3-penten-1-yn-1-yl]phenyl)-4-[(1E)-4-{2-[4-{2-(4-methoxyphenyl)ethynyl]phenyl}ethynyl]-3-propyl-3-penten-1-yn-1-yl]-6-[(4-{2-[(4-methoxyphenyl)ethynyl]phenyl}ethynyl)-3-propyl-3-hepten-1-yn-1-yl]phenyl)- (CAS 230008-1000)



L3 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2005 354187 CAPLUS E(1)(1)(1)

Document Number

143 333

Title

Cytotoxicities, cell cycle and caspase evaluations of 1,6-dialkyl-3(2)-heven-1,5-dynes, 2-(6-aryl-3(2)-heven-1,5-dynyl)anilines and their derivatives

Author/Inventor

Lin, Ch-Fong; Lu, Yu-Hsiang; Hsieh, Ming-Chu; Chen, Yi-Hua; Wang, Jeh-Jeng; Wu, Ming-Jung

Patent Assignee/Corporate Source

School of Chemistry, Kaohsiung Medical University, Kaohsiung, Taiwan

Source

Bioorganic & Medicinal Chemistry (2005), 13(10), 3565-3575 CODEN: BMCEP, ISSN: 0968-0896

Document Type

Journal

Language

English

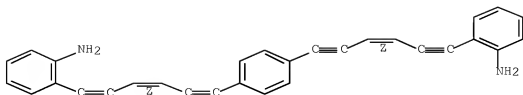
Abstract

A series of compounds showed growth inhibition effects on a full panel of 60 human cancer cell lines, and most of the average IC50 values of the indicated analogs were from <0.01 to 96.6 μM, in which a 2-phenyl analog and the thioanalog revealed the highest cytotoxic activity with the cancer cell lines at 10⁻⁷M concentration range. During the cell cycle analysis, a moderate to high apoptotic progress induction was shown by several compounds with the control, which 2-(6-(2-phenyl-3(2)-heven-1,5-dynyl)aniline (1) showed the highest apoptotic effect. 1 and the thioanalog displayed a significant G2/M phase arrest in the cell growth cycle compared with other derivatives, which the proportions of the G2/M phase cells were accumulated to 71.5% and 85.8%, respectively. Moreover, the colorimetric assay of the 1 and the thioanalog also provided advanced evidence to the relationship between the compounds and the caspase-3 enzyme, which was one of the major promoters of apoptotic effect.

Hit Structure

CAS Registry Number
812623-13-7 CAPLUS

Chemical or Trade Name
Benzonitrile, 2,2'-(1,4-phenylene)-[3,3'-bis(6,1,5-diyne)-6,1-diyl]bis-
(N-2-phenyl-3(2)-heven-1,5-dynyl)aniline (1)



C8 CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

L3 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2004 852644 CAPLUS Fulltext

Document Number

14238113

Title

Site-Selective Monoalkylation of Dialkylpyridines and Its Application for Preparation of Highly Fluorescent π -Conjugated Oligomers

Author/Inventor

Takayama, Yukio; Harasawa, Takashi; Andou, Tomohiro; Murakami, Kenji; Ohtsuka, Hiroyuki; Takahashi, Masaki; Sato, Fumio

Patent Assignee/Corporate Source

Department of Biomolecular Engineering, Tokyo Institute of Technology, Midori-ku, Yokohama, Kanagawa, 226-8501, Japan

Source

Organic Letters (2004), 6(23), 4253-4256 CODEN: ORLEF7; ESN: 1523-7060

Document Type

Journal

Language

English

Abstract

Reaction of $\text{Ti}(\text{O}-\text{Pr})_4$ - PMgCl reagent with 2- n -[trimethylsilyl]ethynylpyridines, where n is 3, 4, 5, and 6, or with 3,4-bis[trimethylsilyl]ethynylpyridines, proceeded with excellent site-selectivity to afford the corresponding monoalkylated complex. Synthetic application of the reaction was demonstrated by an efficient preparation of π -conjugated oligomers having pyridine and ethyne units alternately, which possess intense blue fluorescence emission. Thus, reaction of 2,3-bis[trimethylsilyl]ethynylpyridine with $\text{Ti}(\text{O}-\text{Pr})_4$ - PMgCl reagent in Et₂O gave 84% (Z)-2-[2-(trimethylsilyl)ethynyl]-5-[3-(trimethylsilyl)ethynyl]pyridine.

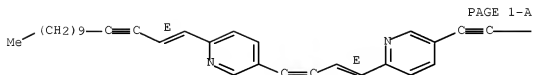
Hi Structure

CAS Registry Number

852642-33-9 CAPLUS

Chemical or Trade Name

Pyridine, 2-[[13E]-4-{6-[(13E)-1-tetradecen-3-yn-1-yl]-3-pyridinyl]-1-buten-3-yn-1-yl]-5-[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



PAGE 1-B

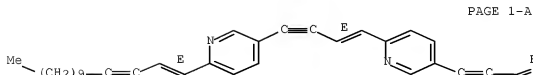


CAS Registry Number

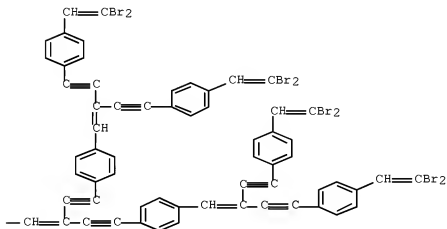
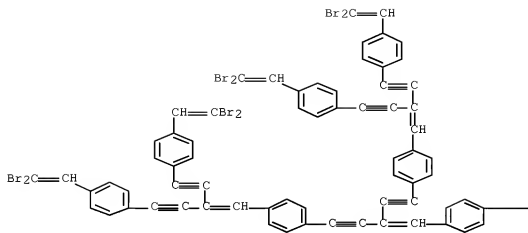
852642-33-9 CAPLUS

Chemical or Trade Name

Pyridine, 2-[[13E]-4-{6-[(13E)-1-tetradecen-3-yn-1-yl]-3-pyridinyl]-1-buten-3-yn-1-yl]-5-[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



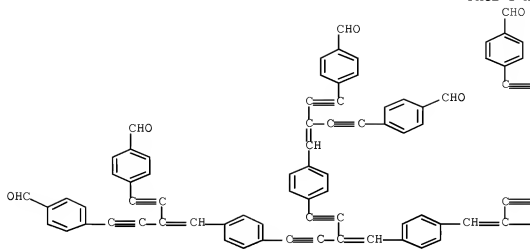
PAGE 1-A



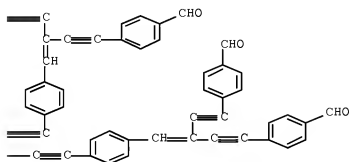
CAS Registry Number
754233-28-6 CASPLUS

Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[[6-[6-[6-(4-formylphenyl)-2-[(4-formylphenyl)ethynyl]-1-buten-3-ynyl]phenyl]-2-[[6-[6-(4-formylphenyl)-2-[(4-formylphenyl)ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]-1,4-pentadienyl-5-ylidene-4,1-phenylene[3-[[6-(4-formylphenyl)ethynyl]-3-buten-2-ynyl-4,1-diy]]]bis- (9CI) (CA INDEX NAME)

PAGE 1-A

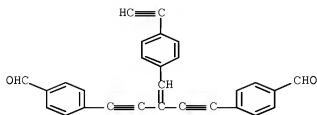


PAGE 1-B

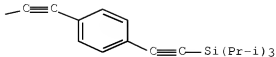


CAS Registry Number
206292-75-1 CAPLUS

Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[(4-ethynylphenyl)methylene]-3,4-pentadiene-1,5-
diyl]bis- (CA 3000X 1000)

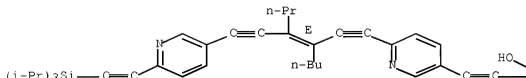


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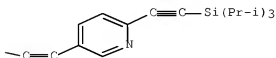
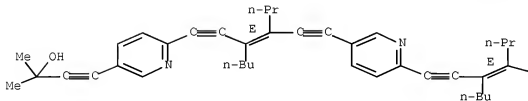
CAS Registry Number
740820-64-4 CAS100

Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[(1E)-3-butyl-4-{2-[6-{2-[tris(1-methylethyl)ethyl]ethyl}]-3-pyridinyl]ethyl}]-3-hepten-1-yn-1-yl]-3-pyridinyl-2-methyl- (CA 13008, NAME)



CAS Registry Number
740820-65-5 CAS100

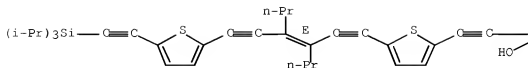
Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[(1E)-3-butyl-4-{2-[6-[(1E)-3-butyl-4-{2-[6-{2-[tris(1-methylethyl)ethyl]ethyl}]-3-pyridinyl]ethyl}]-3-hepten-1-yn-1-yl]-3-pyridinyl]ethyl}]-3-hepten-1-yn-1-yl]-3-pyridinyl-2-methyl- (CA 13008, NAME)



CAS Registry Number

Chemical or Trade Name
 3-Butyn-2-ol, 2-methyl-4-[[5-[(3E)-3-propyl-4-[[5-[[traw[1-methylethyl]ethyl]ethynyl]-2-thienyl]ethynyl]-3-hepten-1-yn-1-yl]-2-thienyl]- (CA INDEX NAME)

PAGE 1-A



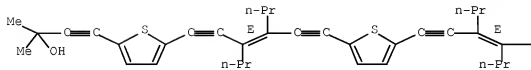
PAGE 1-B



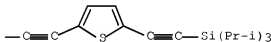
CAS Registry Number
 740810-47-7 CAS/US

Chemical or Trade Name
 3-Butyn-2-ol, 2-methyl-4-[[5-[(3E)-3-propyl-4-[[5-[(3E)-3-propyl-4-[[5-[[traw[1-methylethyl]ethyl]ethynyl]-2-thienyl]ethynyl]-3-hepten-1-yn-1-yl]-2-thienyl]ethynyl]-3-hepten-1-yn-1-yl]-2-thienyl]- (CA INDEX NAME)

PAGE 1-A



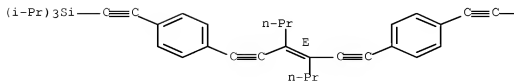
PAGE 1-B

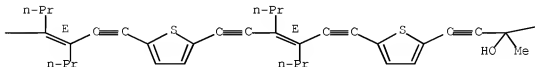
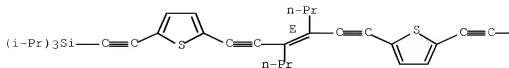


CAS Registry Number
 740810-63-3 CAS/US

Chemical or Trade Name
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PAGE 1-A





OS-CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS
RECORD (26 CITINGS)

L3 ANSWER 14 OF 32 CARLUS COPYRIGHT 2010 ACS on STM

Accession Number
2504 282980 CARLOS Bullock

Document Number

141 88772	
Title	Electrochemical and theoretical study of a family of fully conjugated dendritic oligomers

Author/Inventor

Osoiro, Gabriela, Frontana, Carlos, Guadarrama, Patricia, Frontana-Unibe, Bernardo A.

Assignee/Corporate Source
Instituto de Quimica, UNAM, Circuito Exterior Ciudad Universitaria, Mexico, 04510, Mex.

Journal of Physical Organic Chemistry (2004), 17(3), 439–447 CODEN JPOCEE, ISSN: 0894-3230

Document Type

Journal

Language
English

Abstract

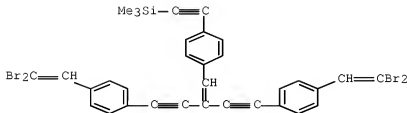
Novel dendritic oligomers of β ,\(\beta-dibromo-2-ethylstyryl(ene)formyl-2-ethyl(ene)s were electrochemically, and their studies to gain a better insight into their redox behavior. Correlations between calculated ionization and experimental potentials (anodic peak potentials) were established. The best correlation was obtained when two important effects are considered in the redox: the steric hindrance, the strong influence of structural reorganization in the formed radical cation and (b) solvation effects. The effect of dendritic terminal groups (dibromovinyl and formyl groups) was also analyzed. A different redox behavior was observed for these two terminal groups, presumably due to a difference in their oxidation mechanisms. A global chemical transformation for the oxidation of dendrimonyl-terminated oligomers was proposed, providing a satisfactory explanation of the electrochemical behavior within this family (presence of redox-active phenomena). Taking these results into account, it is possible to explain how the cation-radical species formed in these conjugated dendritic oligomers behave when cyclic voltammetry technique is applied.

Hy Structure

CAS Registry Number:
716321-89-8 CAPL/25

Chemical or Trade Name

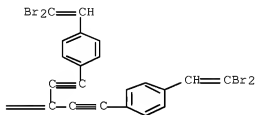
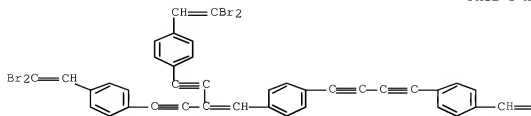
Silane, [[4-[[4-[[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl-, radical ion(14) (PCI) (CA INDEX NAME)



CAS Registry Number
716327-90-1 CASL/05

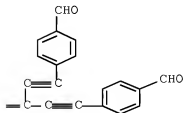
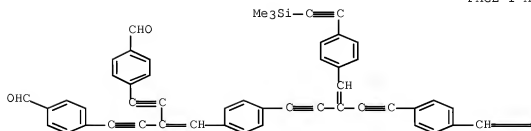
Chemical or Trade Name

Benzene, 3,1'-[1,3-butadiyne-2,4-diyl]bis[6-[4-[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]-, radical ion(2+) (2CI) (CA INDEX NAME)



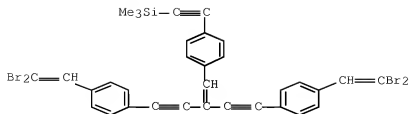
CAS Registry Number
716327-91-2 CAS105

Chemical or Trade Name
Brominated, 4,4'-bis-[3-[[4-1-(trimethylsilyl)ethynyl]phenyl]methylen]-3,4-pentadiyne-1,5-diyl]bis[4,1-phenylene]-3-[[4-(trimethylsilyl)ethynyl]-3-buten-1-yn-4,1-diyl]]bis[4,1-phenylene] radical ion(1-1) (SC1) (CA INDEX NAME)



CAS Registry Number
206181-12-0 CAS105

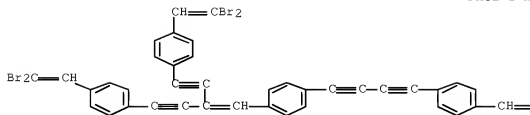
Chemical or Trade Name
Brominated, 4,4'-bis-[3-[[4-1-(trimethylsilyl)ethynyl]phenyl]-2-[[4-(bromomethyl)phenyl]ethynyl]-3-buten-1-yn-4,1-diyl]]bis[4,1-phenylene] radical ion(1-1) (SC1) (CA INDEX NAME)



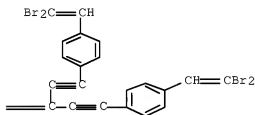
CAS Registry Number
ZINC15-78-9 CAS105

Chemical or Trade Name
Decosene, 2,1'-[1,3-butadiene-1,4-diyl]bis[4-[4-[4-(2,2-dibromoethenyl)phenyl]-2-[4-(2,8-dibromoethenyl)phenyl]ethenyl]-3-buten-3-ynyl]- (9CI) (CA 2008A NMRB)

PAGE 1-A



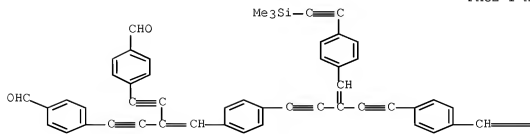
PAGE 1-B

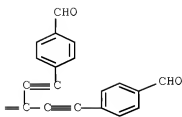


CAS Registry Number
ZINC15-78-9 CAS105

Chemical or Trade Name
Decosene, 2,4'-[1,3-butadiene-1,4-diyl]bis[4-(4-(4-(2,2-dibromoethenyl)phenyl)ethenyl)phenyl]ethenyl]-3,4-pentadiene-1,5-diyl]bis[4,1-phenylene[3-[4-(4-oxo-1-phenylethenyl)phenyl]ethenyl]-3-buten-1-ynyl]-4,1-diyl]]bis- (9CI) (CA 2008A NMRB)

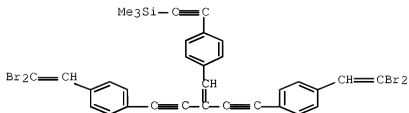
PAGE 1-A





CAS Registry Number
717144-23-5 CAPLOS

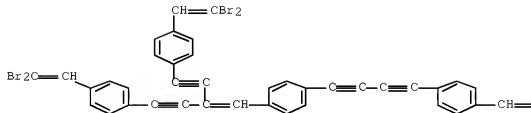
Chemical or Trade Name
Bilace, [4-[4-[4-(2,2-dibromoethyl)phenyl]-2-[4-(2,2-dibromoethyl)phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl-, radical ion(1-) (9CI) (CA INDEX NAME)



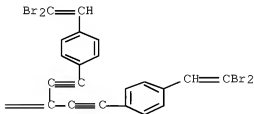
CAS Registry Number
717144-24-6 CASPLUS

Chemical or Trade Name
Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis[6-[4-[4-(2,2-dibromoethenyl)phenyl]-2-[4-[2,2-dibromoethenyl]phenyl]ethynyl]-1-buten-3-ynyl], radical ion(1-) (9CI) [CA INCH NAME]

PAGE 1-A

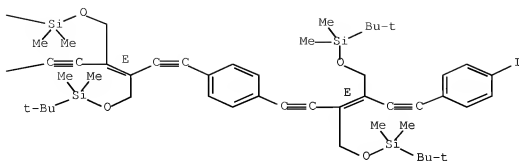


PAGE 1-B



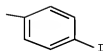
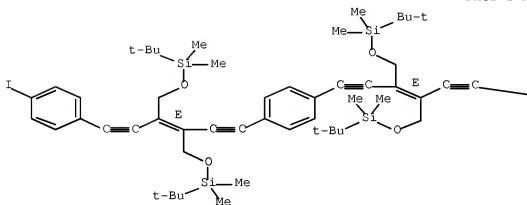
CAS Registry Number
717144-25-7 CASL/OS

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-[[trimethylsilyl]ethynyl]phenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis[4,1-phenylene[3-[[4-formyl]phenyl]ethynyl]-3-butan-



CAS Registry Number
704914-20-0 (XPL105)

Chemical or Trade Name
4,8-Dioxaspiro[3.13]octadeca-6-ene, 6,6'-[1,4-phenylene]-2,3-ethynediyl bis[7-[(4-iodophenyl)ethynyl]-2,2,3,3,10,10,11,11-octamethyl-, (4R,9'S)- (XCL1) (CA 108636-9086)



08 CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD
(8 CITINGS)

L3 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2003-09-1918 CAPLUS File 307

Document Number

139.395637

Title

Synthesis of differentially protected/functionalized acetylenic building blocks from p-benzoquinone and their use in the synthesis of new enediyne
Author/Inventor

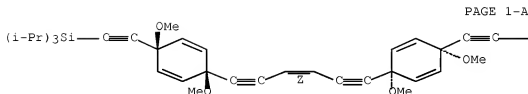
Sankaranarayanan, Sathuraman, Srinivasan, Marudharam
 Patent Assignee/Corporate Source
 Department of Chemistry, Indian Institute of Technology Madras, Madras, 600 036, India
 Source
 Organic & Biomolecular Chemistry (2003), 1(13), 2385-2392 CODEN OBCRAK, ISSN 1477-0520
 Document Type
 Journal
 Language
 English
 Abstract

Sequential addition of two different lithium acetylides to p-benzoquinone yielded diastereomeric mixts. of 1,4-dithynylcyclohexa-2,5-diene-1,4-diols ([R = (MeO)2CH]2SO, (EtO)2CH] with different protective functional groups on the two ethynyl groups. Selective monodeprotection of the di-alkyl ethers of 1 to the corresponding terminal acetylides followed by Pd(PPh₃)₄-mediated coupling with (Z)-1,2-dichloroethene yielded new enedynes 1 bearing cyclohexa-2,5-diene units.

HM Structure

CAS Registry Number
 626235-20-9 CAPLUS

Chemical or Trade Name
 Diene, 1,4-bis[3-(3-oxo-1,5-diene-2,6-diyloxy)but-1,4-dimethoxy-2,5-
 oxy]cyclohexa-2,5-diene-1,4-diol-2,5-ethynediyl]]bis[tri(1-methylethyl)- (3CT)
 (CA INDEX NAME)



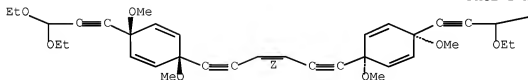
PAGE 1-A

—Si(Pr-i)₃

PAGE 1-B

CAS Registry Number
 626235-21-0 CAPLUS

Chemical or Trade Name
 1,4-Cyclohexadiene, 3,3'-(3S)-(3S)-3-heptene-1,5-diene-2,6-diyloxybis[6-(3,3-
 diethoxy-1-propynyl)-5,6-dimethoxy-, (cis,cis)- (3CT) (CA INDEX NAME)



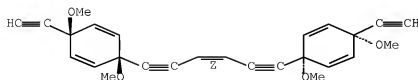
PAGE 1-A

—OEt

PAGE 1-B

CAS Registry Number
 626235-22-1 CAPLUS

Chemical or Trade Name
 1,4-Cyclohexadiene, 3,3'-(3S)-(3S)-3-heptene-1,5-diene-2,6-diyloxybis[6-ethynyl-3,6-
 dimethoxy-, (cis,cis)- (3CT) (CA INDEX NAME)



CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

Accession Number
2003/234291 CAPLUS [Full-Text](#)
Document Number
13985065

Acetylenic scaffolding on solid support. Poly(triacetylene)-derived oligomers by Sonogashira and Cadot-Chodkiewicz-type cross-coupling reactions

Author/Inventor

Utesch, Nita F.; Diederich, François

Patent Assignee/Corporate Source
Laboratorium für Organische Chemie, ETH-Honggerberg, HCI, Zurich, CH-8093, Switz

Source: Organic & Biomolecular Chemistry (2003), 1(2), 237-239 CODEN OBCKAK ISSN 1477-0620

Document Type

Document Type
Journal

Language

English

Abstract
Synthesis of poly(trisocylene)-derived oligomers by Pd(0)-catalyzed Sonogashira and Cadot-Chodkiewicz-type cross-coupling reactions on solid support is reported. Oligo(phenylene trisocylene)s, e.g., [4-C₆H₄C(CH₃)₂CDR CFC (CDR = C₆H₄Me) (R = CH₂CH₂CH₂Me), n = 1, 2, 3, 4) members of a new class of linearly π -conjugated oligomers with all-C backbones, feature very high fluorescence intensities.

HI Structure

HR Structure

CAS Registry Number
10000-90-0 (1,2,3,4,5,6-hexachlorocyclohexane)

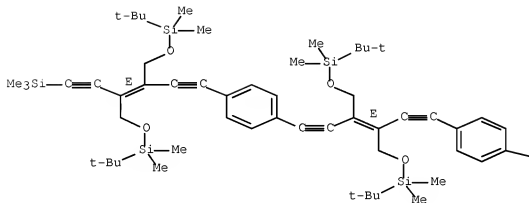
554453-62-0 CAPLOG

Chemical or Trade Name

Chemical or Trade Name
4,9-Dioxo-3,10-disiladodec-6-ene, 6-[[4-[[13E]-3,4-bis[[[1,1-dimethylethyl]dimethylsilyl]oxy]methyl]-6-(4-iodophenyl)-3-hexene-1,5-dienyl]phenyl]ethynyl]-2,8,3,3,10,11,11-octamethyl-7-[[trimethylsilyl]ethynyl]-, (8E)-(9C) (CA INDEX NAME)

[[trimethylsilyl]ethynyl]-, (6E)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

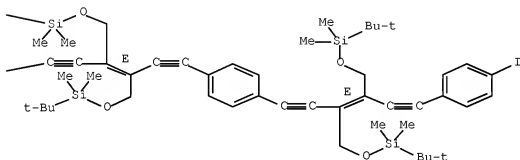
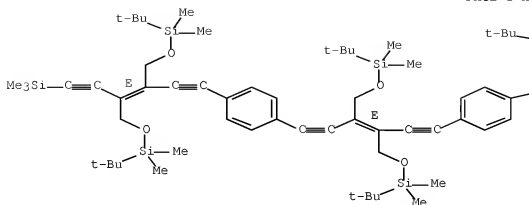
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CAS Registry Number
554452-63-1 CAP103

Chemical or Trade Name

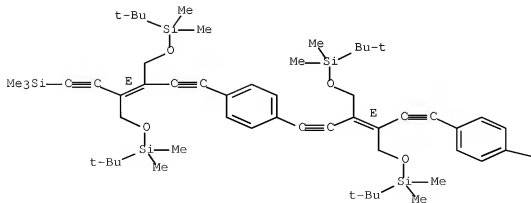
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chemicalName: 10-oxo-10H-phenanthrene-6-carboxylic acid
4,9-Dioxo-4,10-dimethyladodec-6-ene, 6-[[4-[(3E)-6-[[4-[(3E)-5,6-bis[[[(1,1-dimethyl-1H-1,2,3,4-tetrazol-5-yl)methyl]oxy]methyl]-6-[[4-oxodopentyl]-1-3]hexene-2,5-diynyl]phenyl]-3,4-bis[[[(1,1-dimethyl-1H-1,2,3,4-tetrazol-5-yl)methyl]oxy]methyl]-3-hexene-2,5-diynyl]phenyl]ethyl]yl]-2,2,3,3,10,10,11,11-octamethyl-7-[[[(1-trimethylsilyl)ethyl]oxy]]-, (6E)- (9CI) (CA INDEX NAME)
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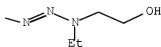
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hexose-1,5-di-[[phenyl]ethynyl]-3,4,5,6,10,10,11,11-tetramethyl-2-[[trimethylsilyl]ethynyl]-, (68)-(9CI) (CA INDEX NAME)
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CAS Registry Number
554459-72-1 CAPLOS

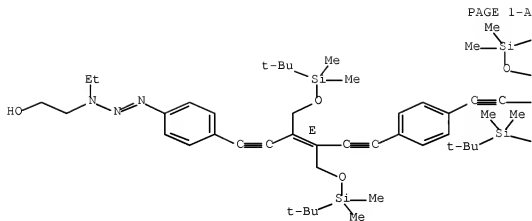
Chemical or Trade Name
Ethanol, 2-[3-[4-(3E)-6-[4-[(3E)-3,4-bis[[[1,1,1-trimethylethyl]dimethylsilyl]oxy]methyl]-6-(trimethylsilyl)-3-hexene-1,5-dien-3-yl]phenyl]-3,4-bis[[[1,3,3-dimethylethyl]dimethylsilyl]oxy]methyl]-3-hexene-2,5-dien-1-yl]phenyl-1-ethyl-2-triazene-1-yl)- (CA INDEX NAME)

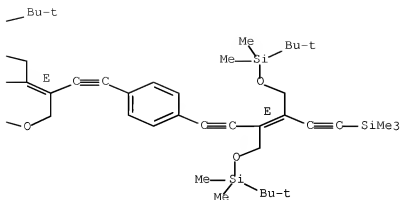




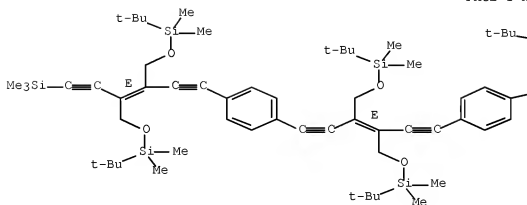
CAS Registry Number
554459-12-2 CASL05

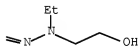
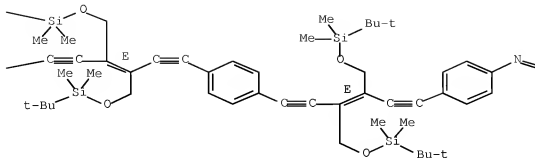
Chemical or Trade Name
Ethanol, 2-[3-[4-[(1E)-4-{4-[(1E)-4-{4-bis[[[(1,1-dimethylethyl)dimethylsilyloxy]methyl]-5-(trifluoromethyl)-3-benzene-1,5-diy-1-yl]phenyl]-3,4-bis[[[(1,1-dimethylethyl)dimethylsilyloxy]methyl]-3-benzene-1,5-diy-1-yl]phenyl]-3,4-bis[[[(1,1-dimethylethyl)dimethylsilyloxy]methyl]-3-benzene-1,5-diy-1-yl]phenyl]-1-ethyl-4-trifluoro-1-yl]- (CA 10000 0000)





CAS Registry Number
554459-73-3 CAS105

[illegible]



OS CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS
RECORD (19 CITINGS)

L3 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2010 ACS on BTN

2002:656690 CAPLUS Full-Text

Document Number
137 398374

Title Manufacturers' method of communicating design ideas using mock models has been both effective and efficient

Author/Inventor: Ohuchi, Junko, Sato, Yasuhiko, Shirobara, Eishi, Hayashi, Hisataka, Ohwa, Tokuhisa; Onishi, Yasunobu
Patent Assignee/Corporate Source: Kabushiki Kaisha Toshiba, Japan

Patent Assignee/Corporate Source
Kabushiki Kaisha Toshiba, Japan

Source: U.S. Pat. Appl. Publ. 35 pp. GORDON, USBX/CC.

Document Type
Default

Language

English
Patent Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
US 20020119612	A1	20020829	US 2001-14459	20011214
US 6376562	B2	20030610		
JP 2002305187	A	20021018	JP 2001-381504	20011214
JP 3504247	B2	20040306		

Abstract

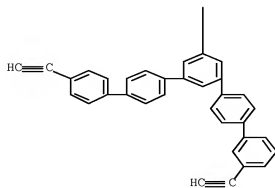
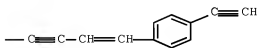
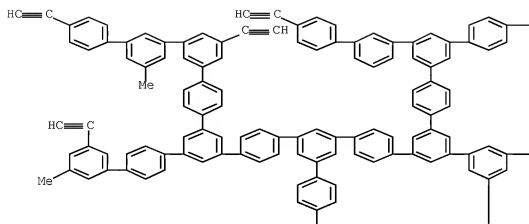
A manufacturing method of semiconductor device comprises (1) forming a mask material having an aromatic ring and carbon content of $\geq 80\%$ on an object, (2) forming a mask material pattern by etching the mask material to a desired pattern, and (3) etching the object to transfer the mask material pattern as a mask to the object.

Hint Structure

CAS Registry Number
452203-35-9 CAPL/25

Chemical or Trade Name

[illegible]



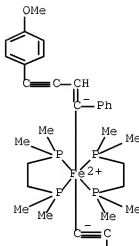
09 .CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

His Structure

CAS Registry Number
425380-10-7 CAPLOS

Chemical or Trade Name

Iron, bis[1,2-ethanediy]bis[dimethylphosphine-κP]]{[4-methoxyphenyl]ethynyl}[1E]-4-[4-methoxyphenyl]-1-phenyl-1-buten-3-ynyl]-, (OC-6-11) (9CI) (CA INDEX NAME)



PAGE 1-A

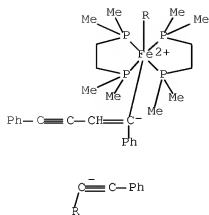
PAGE 2-A



CAS Registry Number
425380-88-4 CAPL02

Chemical or Trade Name

Iron, [(1E)-1,4-diphenyl-1-buten-3-ynyl]bis[1,2-ethanedithiolylbis[4(dimethylphosphine- μ)](phenylethynyl)-, (OC-6-11)-(9C1) (CA INDEX NAME)



08 CITING REF COUNTS: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

13 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
3301714296 CAPLUS Fulltext
Document Number
13669640

Title
Synthesis and spectroscopic studies of expanded planar dehydrobenzo[*a*]phenolones containing one or two isolated alkene units

Author(s)
Wan, W. Brad, Chiesi, Ryan C., Weskey, Timothy J. R., Haley, Michael M.
Patent Assignee/Corporate Source
Department of Chemistry and the Materials Science Institute, University of Oregon, Eugene, OR, 97403-1253, USA

Source
European Journal of Organic Chemistry (2001), (18), 3485-3490 CODEN EJOCFK, ISSN: 1438-193X

Document Type
Journal

Language
English

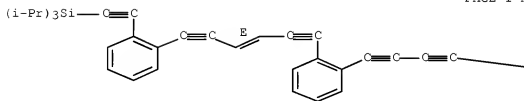
Abstract
Dehydrobenzoannulene derivs. containing isolated alkene linkages, e.g. 1, were synthesized by combining an in situ Pd/Cu-mediated cross-coupling with an intramol. cyclization strategy. 1H NMR studies of these macrocycles and comparison with related systems verify that highly alkynylated dehydrobenzoannulenes possess weak induced ring currents, indicative of aromatic (4n+2 π systems) and antiarom. (4n π systems) behavior, in spite of their large size and extensive benzenoidation

Hit Structure

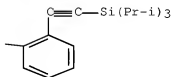
CAS Registry Number
214628-17-8 CAS175

Chemical or Trade Name
Silacene, tri[1-(methylalkyl)][12-(1135)-6-[2-[6-[2-[trile[1-(methylalkyl)14,12(14thyl)]phenyl]-1,3-butadienyl]]phenyl]-3-hexene-1,5-dienyl]phenyl]ethynyl]- (9CZ) (CA INDEX NAME)

PAGE 1-A



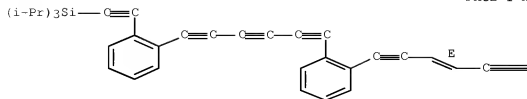
PAGE 1-B



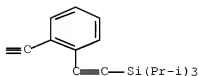
CAS Registry Number
214628-18-9 CAS175

Chemical or Trade Name
 Silane, tri(1-methylethyl)[[2-[6-[2-[(3E)-6-[3-[[tri(1-methylethyl)silyl]ethynyl]phenyl]-3-hepta-1,5-dienyl]phenyl]-1,3,5-hexatrienyl]phenylethynyl]- (9C1) (CA INDEX NAME)

PAGE 1-A



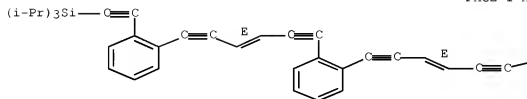
PAGE 1-B



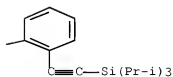
CAS Registry Number
 363404-30-4 CAPLOS

Chemical or Trade Name
 Silane, [1,2-phenylenebis[[3E]-3-hepta-1,5-diene-6,1-diyl-2,1-phenylene-2,1-methylenediyl]bis[tri(1-methylethyl)- (9C1) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OR CITING REF COUNT: 11 THERE ARE 11 CASLOS RECORDS THAT CITE THIS RECORD (11 CITTINGS)

L3 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2000 832492 CAPLUS Fulltext

Document Number
134310920

Title
Bi(enediynes) Macrocycles: Synthesis, Reactivity, and Structural Analysis

Author/Inventor
Blanchette, H. G.; Brand, G. C.; Naruse, H.; Wadley, T. J. R.; Haley, M. M.

Patent Assignee/Corporate Source
Department of Chemistry, University of Oregon, Eugene, OR, 97403-1253, USA

Source
Tetrahedron (2000), 56(49), 9581-9588 CODEN: TETRAH, ISSN: 0040-4020

Document Type
Journal

Language
English

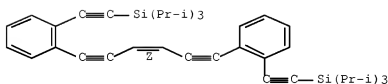
Abstract

The authors describe the syntheses of five macrocycles possessing two enediyne warheads, along with the structural and thermal analyses of these bi(enediyne) compounds. The solid-state packing of one of the compounds suggests the possibility for the mol. to undergo a topochem. diacetylene polymerization.

HR Structure

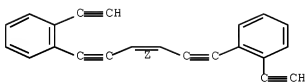
CAS Registry Number
2151710-30-6 CAPLUS

Chemical or Trade Name
Silene, 1,1'-(1,3-bisene-1,5-diynyl-1,6-diyldibis(2,1-phenylene-2,1-ethynediyl))bis(trimethylsilyl)- (9CI) (CA INDEX NAME)



CAS Registry Number
2151710-30-6 CAPLUS

Chemical or Trade Name
Bisene, 1,1'-(1,3-bisene-1,5-diynyl-1,6-diyldibis(2-ethyl-1-ethynediyl))- (9CI) (CA INDEX NAME)



05 CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

L3 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2000 787122 CAPLUS Fulltext

Document Number
13477381

Title
Synthesis and structure of a novel [6]metacyclophane with enediyne bridges

Author/Inventor
Srinivasan, Manivannan; Sankararaman, Sankararam; Dix, Ina; Jones, Peter G.

Patent Assignee/Corporate Source
Department of Chemistry, Indian Institute of Technology, Madras, 600 036, India

Source
Organic Letters (2000), 2(24), 3849-3851 CODEN: ORLEF7, ISSN: 1523-7060

Document Type
Journal

Language
English

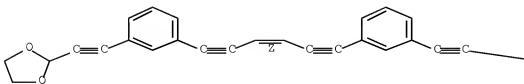
Abstract

Synthesis and structure of a novel [6]metacyclophane with enediyne bridges is reported. It was prepared by reacting 1,3-dimethylbenzene with EtMgBr/THF and DMF to give the monoaldehyde. The monoaldehyde was subsequently converted to the acetal, coupled with ClCH2CHCl2 to give the acetal, which was hydrolyzed to the dialdehyde II. It underwent McMurry coupling using TiCl3 and Zn-Cu couple in DME to give I in 69% yield.

HR Structure

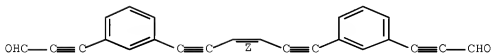
CAS Registry Number
2151710-30-6 CAPLUS

Chemical or Trade Name
ethynediyl)bisene- (9CI) (CA INDEX NAME)



CAS Registry Number
315726-91-7 CAPLUS

Chemical or Trade Name
2-Propynyl, 3,3'-[[3,5-bis-(2-ethynyl)-1,5-diyne-1,4-diyl]bis(3,1-phenylene)]bis-
(921) (CA INDEX NAME)



CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS
RECORD (18 CITINGS)

13 ANDHER 23 OF 32 CAPLUS COPYRIGHT 2010 ACS ON STN

Accession Number
1999 873216 CAPLUS FullText

Document Number
131 337589

Title
Electronic structure of fully conjugated dendritic oligomers of β , β -dibromo-4-ethyl styrene

Author/Inventor
Petrina, Serguei; Fomenko, Ludmila; Guadarrama, Patricia

Patent Assignee/Corporate Source
Universidad Nacional Autónoma de México, Instituto de Investigaciones en Materiales, Coahuila, 04510 CU, Mex

Source
Journal of Molecular Structure: THEOCHEM (1999), 485, 267-216 CODEN: THEODJ, ISSN: 0166-1280

Document Type
Journal

Language
English

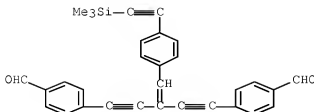
Abstract

Quantum-mechanical calculations of fully conjugated dendritic oligomers carried out at B3LYP/3-21G (N/3-21G (d)) and B3LYP/3-21G (N/3-21G (d)) levels of theory showed that loose dendritic architecture of β , β -dibromo-4-ethyl styrene oligomers contributes little to the instability and conjugation disruption compared to 1-2 branched polyacetylene, while Br terminal atoms in dendrimers strongly affect the electronic distribution in studied moieties. On the one hand the bulky bromine atoms decrease the conjugation in Br-terminated dendrimers caused by steric hindrances, on the other hand, highly polarizable bromine atoms reduced significantly adiabatic ionization potentials (IPs) to be up to 1.5 eV lower than corresponding vertical potentials (IP_v). Another phenomenon contributing to the reducing of IP_v of all dendrimers is the flattening of molecular geometry accompanying the ionization thus allowing better delocalization of positive charge over the conjugated system while all aromatic rings except the very outer layer lost their aromaticity becoming essentially quinone by nature.

Hit Structure

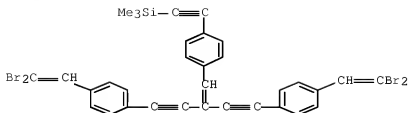
CAS Registry Number
206181-72-9 CAPLUS

Chemical or Trade Name
Benzaldehyde, 4,4'-bis-[[4-(trimethylsilyl)ethynyl]phenyl]methylene-1,4-
pentadiyne-2,5-diyl]bis- (921) (CA INDEX NAME)



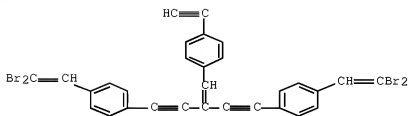
CAS Registry Number
206181-72-9 CAPLUS

Chemical or Trade Name
Silane, [[4-[[4-(2,2-dibromoethyl)phenyl]-2-[[6-(2,2-dibromoethyl)phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl-(9C1) (CA INDEX NAME)



CAS Registry Number
206181-73-9 CAPL/28

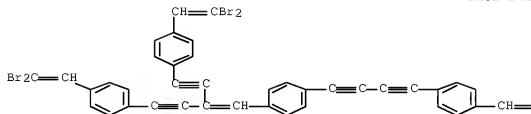
Chemical or Trade Name
Benzene, 1,1'-[3-[[4-ethynylphenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis[4-(2,2-dibromoethyl)- (9CI) (CA INDEX NAME)



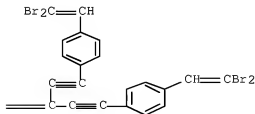
CAS Registry Number
206182-74-0 CAP102

Chemical or Trade Name
Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis[4-[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]- (9CE) (CA INDEX NAME)

PAGE 1-A

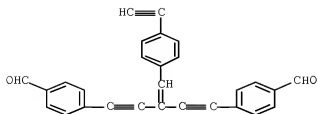


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CA9 Registry Number
206183-75-1 CAP103

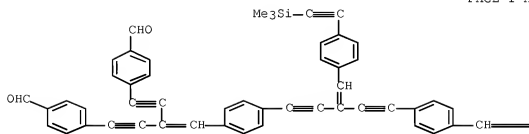
Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[(4-ethynylphenyl)methylene]-1,4-pentadiyne-1,5-diyl]bis- (CA INDEX NAME)



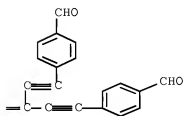
CAS Registry Number
204191-76-2 CAS195

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-[(trimethylsilyl)ethynyl]phenyl]ethynyl]phenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis[4,1-phenylene]-3-[(4-formylphenyl)ethynyl]-3-buten-1-yne-4,1-diyl]]bis- (901) (CA, INCI, NMR)

PAGE 1-A



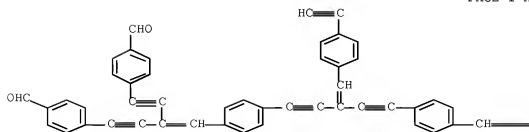
PAGE 1-B

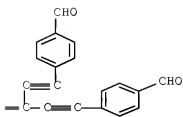


CAS Registry Number
204191-77-3 CAS195

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-ethynylphenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis[4,1-phenylene]-3-[(4-formylphenyl)ethynyl]-3-buten-1-yne-4,1-diyl]]bis- (901) (CA, INCI, NMR)

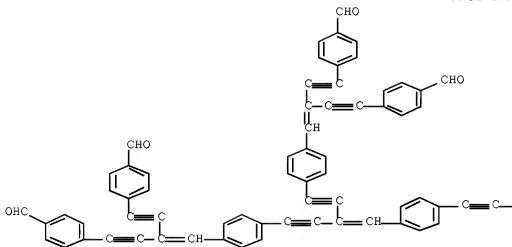
PAGE 1-A

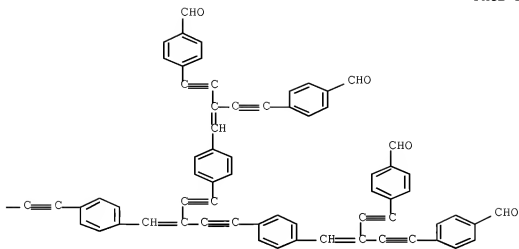




CAS Registry Number
206151-10-4 CAS105

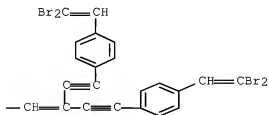
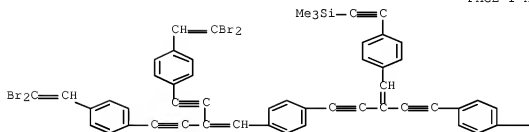
Chemical or Trade Name
Bismaleidehyde, 5,4'-[1,3-butadiyne-1,4-diyl]bis[4,1-phenylene[3-[[4-(4-formylphenyl)-2-[[6-(6-formylphenyl)ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]-3-buten-1-ynyl]-2,6-diyl]-6,2-phenylene[3-[[4-(6-formylphenyl)ethynyl]-3-buten-1-ynyl]-4,1-diyl]]bis- (DGT) (CA INDEX NAME)





CAS Registry Number
204191-19-5 CAPLUS

Chemical or Trade Name
Silace, [4'-[4-[4-(4-(2,2-dibromoethenyl)phenyl)-2-[4-(2,2-dibromoethenyl)phenyl]ethynyl]-2-buten-3-ynyl]phenyl]-2-[4-[4-(2,2-dibromoethenyl)phenyl]-2-[4-(2,2-dibromoethenyl)phenyl]ethynyl]-3-buten-3-ynyl]phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]triisethyl- (BCI) (CA INDEX NAME)



OR CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L3 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1999-050896 CAPLUS E6(30)

Document Number
19216702

Title
Theoretical description of luminescent effects in p,p'-di(4-formylphenyl)ethynyl-4-ethynylstyrene

Author/Inventor
Salcedo, R.; Guadarrama, P.; Sansores, L. E.; Fornhe, S.; Fornhe, L.

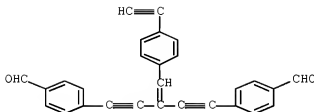
Patent Assignee/Corporate Source
 Inst de Investigaciones en Materiales, Inst de Investigaciones en Materiales, UNAM, Mexico, 04510, Mex
 Source
 Materials Research Society Symposium Proceedings (1999), 560(Luminescent Materials), 359-364 CODEN MRSPDH, ISSN 0272-9172
 Document Type
 Journal
 Language
 English
 Abstract

Theor. calcs. at HF/6-31 G(d) level were carried out on fully conjugated compds: (4-ethynylbenzaldehyde, (p,p'-dibromo-4-ethynylstyrene, (p,p'-di(4'-formylphenyl)ethynyl)-4-ethynylstyrene and its dimer) to understand the source of blue emission observed in oligomers of the 1st and 2nd generation in CHCl₃ solns. The frontier orbitals are distributed through the framework of the mol's. (benzene rings, double and triple bonds and chromophores).
 Addnl: a CI approach was applied over (p,p'-di(4'-formylphenyl)ethynyl)-4-ethynylstyrene (compound 3) at CC/6-31 G(d) level to modeling excited states and simulate the UV-visible spectrum expl. obtained.
 Calculated transitions corresponded to S₀-S₁ which are, presumably, responsible for the fluorescence observed

HR Structure

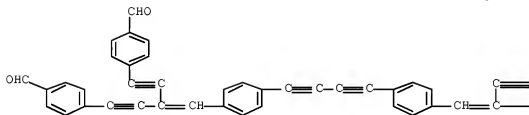
CAS Registry Number
 204321-75-1 CASJUS

Chemical or Trade Name
 Benzaldehyde, 4,4'-[3-[[4-ethynylphenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis- (CA INDEX NAME)

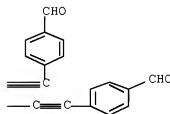


CAS Registry Number
 214479-84-2 CASJUS

Chemical or Trade Name
 Benzaldehyde, 4,4'-[3-[[3-buten-2-yn-4,1-diyl]bis- (4'-formylphenyl)ethynyl]-3-buten-2-yn-4,1-diyl]]bis- (SCI) (CA INDEX NAME)

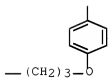
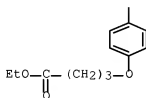
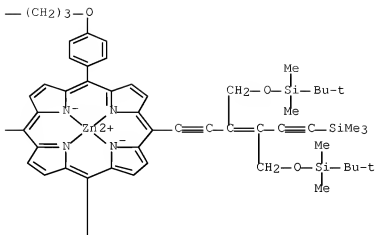


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PAGE 1-B

CS Citing REF COUNT: 1 THERE ARE 1 CASJUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)



08 CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (45 CITINGS)

L3 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1986 600810 CAPLUS [Fulltext](#)
Document Number
129302407

Title

Synthesis of expanded planar dehydrobenzocorroles: weakly diatropic, weakly paratropic, or atropic?

Author/Inventor

Wan, W. Brad; Kimball, David B.; Holey, Michael M.

Patent Assignee/Corporate Source

Department of Chemistry, University of Oregon, Oregon, 97403-1293, USA

Source

Tetrahedron Letters (1998), 39(38), 6795-6798 CODEN: TETLEY; ISSN: 0040-4039

Document Type

Journal

Language

English

Abstract

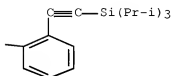
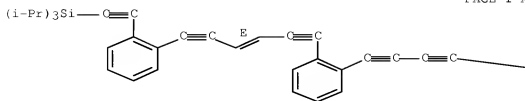
Use of a Cu/Pd cross-coupling strategy has led to the synthesis of the first dehydrobenzocorroles [X = C (spiro) or C, (E)-CH=CH, n = 0,1] containing biacetylenic linkages. NMR studies of these macrocycles and comparison with other known systems indicate that, in spite of their large size and extensive benzannulation, dehydrobenzocorroles possess weak induced ring currents.

HR Structure

CAS Registry Number
214629-17-9 CAPLUS

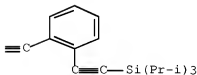
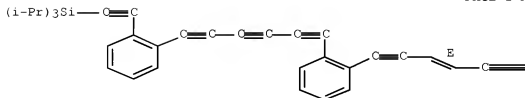
Chemical or Trade Name

Silane, tria(1-methylethynyl)[[2-[[3-(3-ethoxyphenyl)-2-[[4-[[2-[[tria(1-methylethynyl)ethyl]ethynyl]phenyl]-3,3'-butadiynyl]phenyl]-3-hexene-1], 5-



CAS Registry Number
214620-10-9 CAPLUS

Chemical or Trade Name
Silane, tri[1-methylethynyl]bis[2-[6-[2-[(2E)-6-[2-[[tridecyl-1-ethynyl]ethyl]ethynyl]phenyl]-2-heptene-1,8-diynyl]phenyl]-2,3,5-triaza-1-yl]phenyl]ethynyl]- (3C1) (CA INDEX NAME)



CS CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)

L3 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1998 269202 CAPLUS [File 3635](#)

Document Number
128257221

Title
Steric Hindrance Facilitated Synthesis of Enynes and Their Intramolecular [4 + 2] Cycloaddition with Alkynes
Author/Inventor
Gonzalez Juan J, Francesch, Andres, Cardenas, Diego J, Echavarren, Antonio M

Patent Assignee/Corporate Source
Departamento de Quimica Organica, Universidad Autonoma de Madrid, Madrid, 28049, Spain

Source
Journal of Organic Chemistry (1998), 63(9), 2854-2857 CODEN JOCEAH, ISSN 0022-0263

Document Type
Journal

Language
English

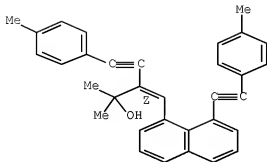
Abstract

The palladium-catalyzed insertion of 1-alkynes into internal alkynes which are bent out of linearity by the interference with a pen or ortho substituent led to arynes regioselectively. The resulting arynes undergo a new type of intramolecular cyclization, which can be used for the annulation of an aryl ring onto naphthalene derivatives to afford furans. The cyclization of (E)-1-(4-buten-2-ynyl)-4-ethynynaphthalene could also be performed in the presence of a Cu(I) catalyst at room temperature.

Hit Structure

CAS Registry Number
203334-39-6 CAPLUS

Chemical or Trade Name
4-ethynyl-2-methyl-3-methyl-5-(6-methylphenyl)-3-[(E)-12-(6-methylphenyl)ethynyl]-1-naphthalenylmethylene-, (3E)- (CA INDEX NAME)



68 CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

L3 ANSWER 38 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1998 247633 CAPLUS Fulltext

Document Number
128 295129

Title
Synthesis and characterization of well-defined fully conjugated hyperbranched oligomers of β,β -dibromo-4-ethynylstyrene

Author/Inventor
Farras, Lourdes; Guadarrama, Patricia; Fomine, Serguei; Salcedo, Roberto; Oguna, Takeshi

Patent Assignee/Corporate Source
Instituto Investigaciones Materiales, Univ. Nacional Autonoma de Mexico, Mexico, 04510, Mex.

Source
Polymer (1998), 39(12), 2629-2635 CODEN: POLMAG, ISSN: 0032-3861

Document Type
Journal

Language
English

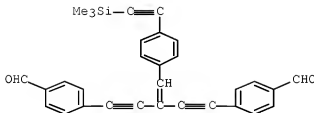
Abstract

Well-defined dendritic oligomers of poly(β,β -dibromo-4-ethynylstyrene) of the first and second generation were synthesized by a stepwise synthesis, and characterized by ^1H and ^{13}C NMR and calor. showed that free rotation around formal single bonds is hampered by conjugation. All of the oligomers were blue emitters with their emission maxima correlating with the number of repeating units. All dendrimers except β,β -dibromo- β,β' -dibromostyryl-4'-ethynylstyryl-4'-ethynyl-4-ethynylstyrene showed two maxima in the excitation spectra.

Hit Structure

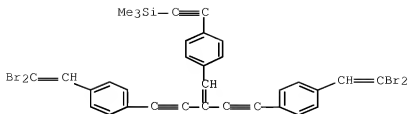
CAS Registry Number
206181-71-7 CAPLUS

Chemical or Trade Name
Benzaldehyde, 4,4'-bis[4-(4-(2,2-dibromovinyl)ethynyl)phenyl]phenylmethylene]-1,4-pentadiyne-1,3-diylbis- (9CI) (CA INDEX NAME)



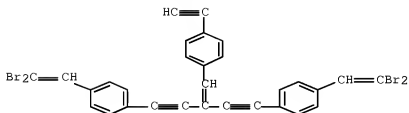
CAS Registry Number
206181-72-8 CAPLUS

Chemical or Trade Name
Silane, 1-[4-(4-(2,2-dibromovinyl)ethynyl)phenyl]-2-[(E)-12-(6-methylphenyl)ethynyl]-3-[(E)-12-(6-methylphenyl)ethynyl]trimethyl-, (9CI) (CA INDEX NAME)



CAS Registry Number
266191-13-9 CAS103

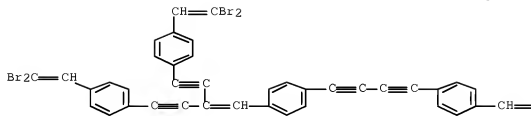
Chemical or Trade Name
Decosene, 2,2'-(3-[(4-ethynylphenyl)methylene]-1,4-pentadiyne-5,5-diyl)bis[4-(2,2-dibromoethenyl)]- (PCT) (CA 3806X NAME)



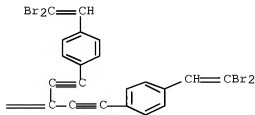
CAS Registry Number
266191-14-0 CAS103

Chemical or Trade Name
Benzene, 2,2'-(3-[(4-ethynylphenyl)methylene]-1,4-pentadiyne-5,5-diyl)bis[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]- (PCT) (CA 3806X NAME)

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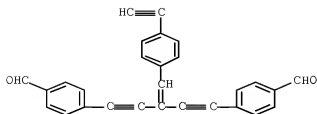


PAGE 1-B



CAS Registry Number
266191-15-1 CAS103

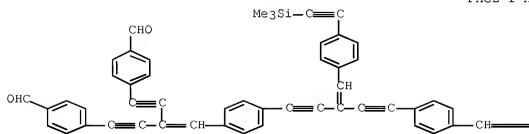
Chemical or Trade Name
Benzene, 2,2'-(3-[(4-ethynylphenyl)methylene]-1,4-pentadiyne-5,5-diyl)bis[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]- (PCT) (CA 3806X NAME)



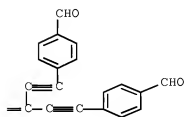
CAS Registry Number
204191-76-2 CAS195

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-[(trimethylsilyl)ethynyl]phenyl]ethynyl]phenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis[4,1-phenylene]-3-[(4-formylphenyl)ethynyl]-3-buten-1-yne-4,1-diyl]]bis- (901) (CA, INChI, NMR)

PAGE 1-A



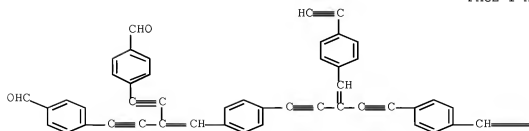
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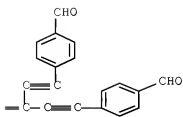


CAS Registry Number
204191-77-3 CAS195

Chemical or Trade Name
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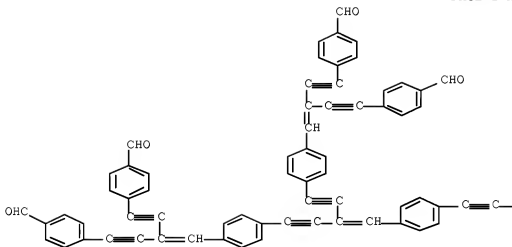
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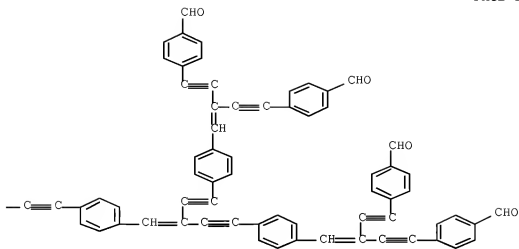




CAS Registry Number
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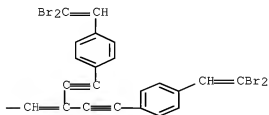
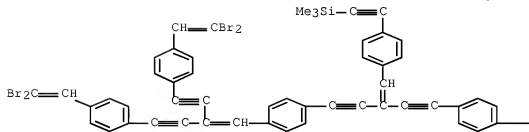
Chemical or Trade Name
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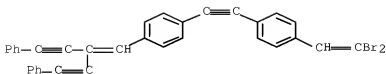


CAS Registry Number
206182-79-5 CAP100

Chemical or Trade Name
Silace, [[4-[[4-[[4-[[4-2,2-dibromoethyl]phenyl]-2-[[4-[[2,2-dibromoethyl]phenyl]ethyl]-3-buten-3-ynyl]phenyl]-2-[[4-[[4-[[2,2-dibromoethyl]phenyl]-2-[[4-[[2,2-dibromoethyl]phenyl]ethyl]-1-buten-3-ynyl]phenyl]ethyl]-1-buten-3-ynyl]phenyl]ethyl]trimethyl- (9CI) (CA
INDEX NAME]



Chemical or Trade Name
Benzene, 1-[2-[4-(2,2-dibromoethenyl)phenyl]ethynyl]-4-[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)

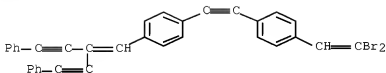


CAR Registry Number
171296-99-9 CAP109

Chemical or Trade Name
Decanedioic acid, di-2-propenyl ester, polymer with
1-[[4-(2,2-dibromoethoxy)phenyl]ethyl]-4-[[4-phenyl-2-(phenylethynyl)-1-
buten-3-ynyl]benzene (9CI) (CA INDEX NAME)

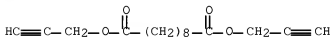
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CFN 171296-96-1
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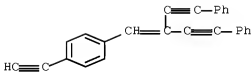
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CPD 93164-22-8
CME C16 M22 04



CAS Registry Number
171297-02-2 CASLOG

Chemical or Trade Name
Benzene, 1-ethynyl-4-[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]-
(CA INDEX NAME)



OS CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (11 CITINGS)

L3 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 1995.642210 CAPLUS Fiji-best
Document Number

123 33763
Title

Synthesis and molten-state polymerization of some novel conjugated diazotylines

Author/Inventor
Fernando Llorente, Milor, Hoster, Fernando, Rosal, Salgado, Roberto, Osorio, Tolochi

Patent Assignee/Corporate Source

Inst. Investigaciones Materiales, Ciudad Univ., Mexico, 04510, Mex

Source: Bureau of Economic Analysis.

Document Types

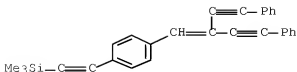
Journal

Abstract

Hit Structure

CAS Registry Number
164463-30-5 cas.rsc.org

Chemical or Trade Name
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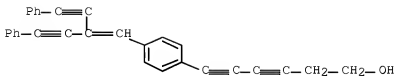


CAS Registry Number
144467-20-3 CN1003

Chemical or Trade Name
3,5-bis(trimethylsilyl)-4-[(4-phenyl-2-(phenylethynyl)-1-buten-3-ynyl)phenyl]-
-benzenesulfonate (NCS) (CA 12068 NAME)

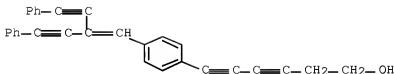
CN
3

CN 144467-20-3
CNZ C30 323 0



CAS Registry Number
144467-20-3 CN1003

Chemical or Trade Name
3,5-bis(trimethylsilyl)-4-[(4-phenyl-2-(phenylethynyl)-1-buten-3-ynyl)-
-yl]phenyl (NCS) (CA 12068 NAME)



GS CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (11 CITINGS)

L3 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1994-92294 CAPLUS Fulltext

Document Number
121 12234

Title
De fluoride derivative and liquid crystal composition containing the same

Author/Inventor
Yoshiko Chama, Isao, Jun, Koh, Hiromasa

Parent Assignee/Corporate Source
Asahi Glass Co., Ltd., Japan

Source
PCT Int. Appl., 43 pp. CODEN: PXXD2

Document Type
Patent

Language
Japanese

Parent Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
WO 940619	A1	19940317	WO 999-3P1235	19990901
EP 628528	A1	19941214	EP 1993-919602	19930901
JP 06293661	A	19940920	JP 1993-219709	19930903
JP 3064711	B2	20040915		
US 5419851	A	19950530	US 1994-211625	19940430
JP 2004292404	A	20041021	JP 2004-115211	20040409
JP 3707493	B2	20050109		

Abstract

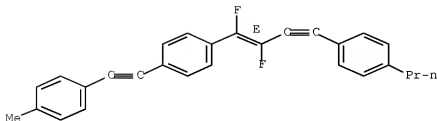
De fluoride deriv. represented by the general formula R1(A1Y1)mA2CF3CFC (A1 = A4 = trans-1,4-cyclohexylene, 1,4-cyclohexenylene, or 1,4-phenylene wherein a CH group of each ring may be substituted by N or O; C2 groups of the ring may be substituted by O or S, m = 0, 1, R1, R2 = C1-10 alkyl, halo, cyano wherein (1) O, COO, or OOC may be inserted between the C-C bond of alkyl or that between alkyl and ring; (2) a part of the C-C bonds in alkyl is replaced by C=C or C-C bonded C bond, or (3) one CFC group in alkyl is replaced by CO group, Y1, Y2 = COO, OOC, C2-alkoxy, CH2CH2, CH2CH, COCH2, CHCO, CHCO, CHCO) are prepared. These compounds have low viscosity, are light-stable, and hence can provide a liquid crystal composition having high response speed. Thus, 0.1 mol of CFC2 was blown into THF at -100° followed by adding dropwise 62.1 mL, 1.61 M BuLi/toluene stirring for 30 min, adding dropwise 0.1 mol of Me3SiCF3 stirring for 1 h, adding dropwise a solution of 4-propylphenyl lithium in THF (prepared from 4-propylbromobenzene and BuLi at 100° and stirring for 2 h at 0° to give 79% C2-4-PC6H4OCF3PSA63. The latter compound (0.075 mol) was reacted with 0.15 mol of KF in aqueous MeCN at 70° for 1 h to give 85% (E)-4-PC6H4OCF3PH which (0.062 mol) was dissolved in THF, cooled to -78°, and treated dropwise with 98.5 mL, 1.61 M BuLi/toluene followed by stirring for 30 min, adding 15.7 g acetone, and stirring at room temperature for 4 h to give 85% (E)-4-PC6H4OCF3. The latter compound (0.051 mol) and 0.051 mol of 4-propylphenyltoluene were dissolved in 100 mL EtOH followed by adding H3PO4/H2O2/CCl4 and the resulting mixture was allowed to react at room temperature for 6 h to give 75% diphenylfluorobutylene.

derivative (f). A STN-type liquid crystal display device was prepared from a liquid composition containing 50 weight% I and 50 weight% ZLI-1565 and irradiated with a UV carbon arc lamp for 200 h; new compds. were hardly formed whereas *trans*-4,4'-bis(*n*-propyl)fluorostilbene was formed in a liquid crystal composition containing ZLI-1565 and *trans*-4,4'-bis(*n*-propyl)fluorostilbene

HR Structure

CAS Registry Number
154863-08-0 CASIUS

Chemical or Trade Name
Benzene, 3-[(1,2-difluoro-6-(4-propylphenyl)-1-buten-3-ynyl)-6-[(4-methylphenyl)ethynyl]], (E)- (9CI) (CA 28386 9006)



00 CITING REF COUNT: 1 THERE ARE 1 CASIUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

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---Logging off of STN---

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Executing the logOff script...

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exact/geom bonds :
1-11 6-7 7-8 18-19
exact bonds :
1-2 2-3 3-4 4-5 5-6 6-7 8-9 9-11 11-16 16-17 17-18

GLICK,Cy,Ry
G2(C,C,H,Si,Cb,Cy,Ry

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:CLASS 9:CLASS 11:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

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L3 32 L2

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L4 22 L3 AND (PYE=2004 OR AYE=2004)

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L4 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2004-82044

Document Number

142 38113

Title

Site-Selective Monofunctionalization of Diarylpiperidines and Its Application for Preparation of Highly Fluorescent π -Conjugated Oligomers

Author/Inventor

Takayama, Yuuki, Hanazawa, Takashi, Andou, Tomohiro; Murakami, Kenji; Ohtani, Hiroyuki; Takahashi, Mizuki; Sato, Fumie

Patent Assignee/Corporate Source

Department of Biomolecular Engineering, Tokyo Institute of Technology, Midori-ku, Yokohama, Kanagawa, 226-8501, Japan

Source

Organic Letters (2004), 6(23), 4253-4256 CODEN: ORLEFF; ISSN 1523-7066

Document Type

Journal

Language

English

Abstract

Reaction of $Ti(O-Pr)_4$ - $PMgCl$ reagent with 2,6-bis(trimethylsilyl)pyridines, where n is 3, 4, 5, and 6, or with 3,4-bis(trimethylsilyl)pyridines, proceeded with excellent site-selectivity to afford the corresponding monofunctionalized complex. Synthetic application of the reaction was demonstrated by an efficient preparation of π -conjugated oligomers having pyridine and enyne units alternately, which possess intense blue fluorescence emission. Thus, reaction of 2,3-bis(trimethylsilyl)pyridine with $Ti(O-Pr)_4$ - $PMgCl$ reagent in Et₂O gave 84% (2)-(2-(trimethylsilyl)vinyl)-5-(trimethylsilyl)pyridine.

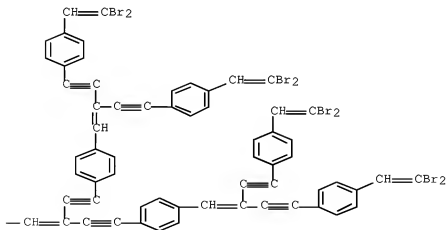
HS Structure

CAS Registry Number

805240-17-9 CAPLUS

Chemical or Trade Name

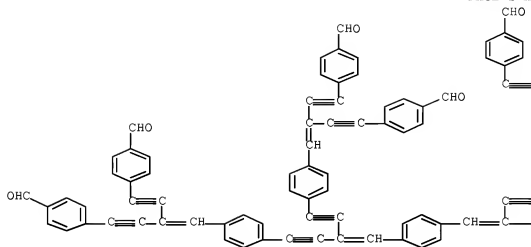
Pyridine, 2-[(1E)-1-[(E)-1-(1E)-1-tetradecen-3-yn-1-yl-3-pyridinyl]-1-buten-3-yl-2-yl]-3-(3-[(trimethylsilyl)ethynyl]ethynyl)- (CA INDEX NAME)



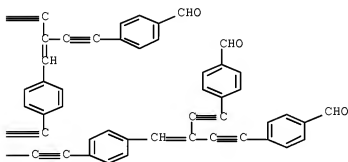
CAS Registry Number
754231-12-6 CAPLUS

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-[4-(4-(4-ethoxyphenyl)-2-[[4-(4-ethoxyphenyl)ethoxy]-2-buten-3-ynyl]phenyl]-5-[[6-[4-(4-ethoxyphenyl)-2-[[4-(4-ethoxyphenyl)ethoxy]-1-buten-3-ynyl]phenyl]ethoxy]-1-buten-3-ynyl]phenyl]ethoxy]-2,4-pentadiyne-1,5-diyl]bis(4,1-phenylene)-3-[[4-(4-ethoxyphenyl)ethoxy]-3-buten-2-yno-2,1-diyl]]]bis- (9CI) (CA INDEX NAME)

PAGE 1-A

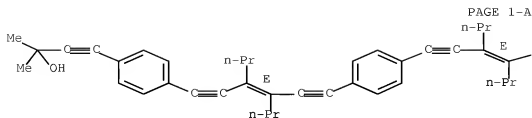


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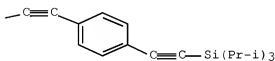


CAS Registry Number
204181-70-1 CAPLUS

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-ethoxyphenyl]methylene]-1,6-pentadiyne-1,5-diyl]bis- (CA INDEX NAME)



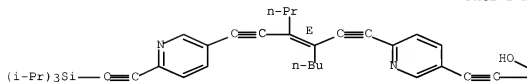
PAGE 1-B



CAS Registry Number
740830-64-4 CAS105

Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[(3E)-3-butyl-4-{2-[6-[2-[tris(1-methylethyl)ethyl]ethynyl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]-2-methyl-, (CA INDEX NAME)

PAGE 1-A



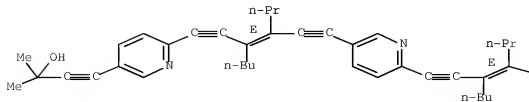
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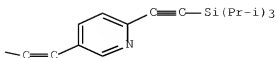


CAS Registry Number
740830-65-5 CAS105

Chemical or Trade Name
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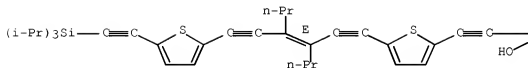
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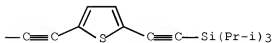
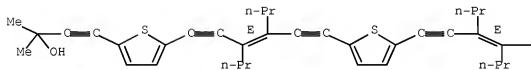
CAS Registry Number
740810-67-7 CAP108

Chemical or Trade Name
3-Butyn-2-ol, 2-methyl-4-[5-[(3E)-3-propyl-4-[5-[[tris(1-methylethyl)silyl]ethynyl]-2-thienyl]ethynyl]-3-hepten-1-yn-1-yl]-2-thienyl)- (CA INDEX NAME)



CAS Registry Number
740810-68-8 CAP108

Chemical or Trade Name
3-Butyn-2-ol, 2-methyl-4-[[5-[(3E)-3-propyl-4-[[5-[(3E)-3-propyl-4-[[5-[[tris(2-methyl-ethyl)silyl]ethyl]-2-thienyl]ethyl]-3-hepten-1-yn-1-yl]-2-thienyl]ethyl]-3-hepten-1-yn-1-yl]-2-thienyl]- (CA INDEX NAME)



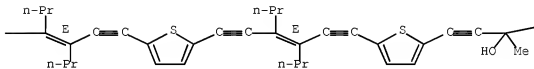
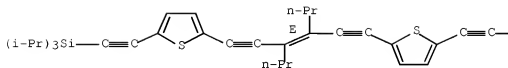
CAS Registry Number
740810-63-3 CASL/08

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CAS Registry Number
74852-09-9 CAPLUS

Chemical or Trade Name
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DB CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)

L4 ANSWER 4 OF 82 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2004 303089 CAPLUS File/Title

Document Number
14188772

Title

Electrochemical and theoretical study of a family of fully conjugated dendritic oligomers

Author/Inventor

Osorio, Gabriela, Fontana, Carlos, Guadarrama, Patricia, Fontana-Urbe, Bernardo A. Patent Assignee/Corporate Source

Instituto de Quimica, UNAM, Circuito Exterior Ciudad Universitaria, Mexico, 04510, Mex.

Source

Journal of Physical Organic Chemistry (2004), 17(9), 439-447 CODEN JPOCEE, ISSN 0959-3020

Document Type

Journal

Language

English

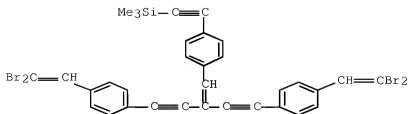
Abstract

Novel dendritic oligomers of β,β -dibromo-4-ethynylstyrene and formyl-4-ethynylstyrene were electrochemically studied to gain a better insight into their redox behavior. Correlations between calculated ionization and explicit oxidation potentials (anodic peak potentials) were established. The best correlation was obtained when two important effects are considered in the theoretical calculations: (a) structural reorganization in the formed radical cation and (b) solvation effects. The effect of dendritic terminal groups (dibromovinyl and formyl groups) was also analyzed. A different redox behavior was observed for these two terminal groups, presumably due to a difference in their oxidation mechanisms. A global chemical transformation for the oxidation of dibromovinyl-terminated oligomers was proposed, providing a satisfactory explanation of the electrochemical behavior within this family (in presence of adsorptive phenomena). Taking these results into account, it is possible to explain how the cation-radical species formed in these conjugated dendritic oligomers behave when cyclic voltammetry technique is applied.

HB Structure

CAS Registry Number
715371-00-0 CAPLUS

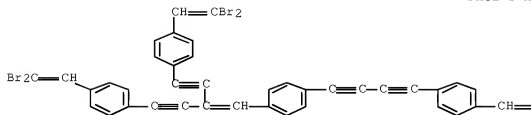
Chemical or Trade Name
Zinc, 1-[4-[4-[2,2-dibromoethenyl]phenyl]-2-[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-butene-3-ynyl]phenyl]ethynyl]trimethyl-, radical ion(1+) (9C2) (CA INDEX NAME)



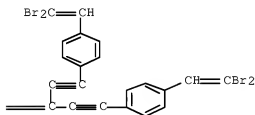
CAS Registry Number
716327-90-1 CAP100

Chemical or Trade Name
Benzene, 1,1'=[1,3-butadiene-1,4-diyl]bis[4-{4-[2,2-dibromoethenyl]phenyl}-2-[4-(2,3-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]-, radical ion(1+) (9CI) [CA INDEX NAME]

PAGE 1-A



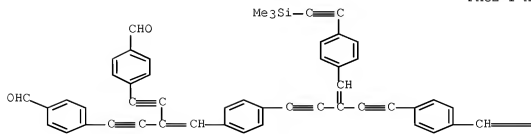
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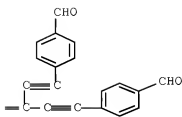


CAS Registry Number
716327-93-2 CAS100

Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[4-[(trimethylsilyl)ethynyl]phenyl]methylene]-1,4-
pentadiene-1,5-diyl]bis[4,1-phenylene]-3-[4-formylphenylethynyl]-3-buten-
-yne-4,1-diyl]-bis-, radical form (1:1) (9CI) (CA INDEX NAME)

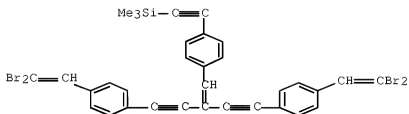
PAGE 1-A





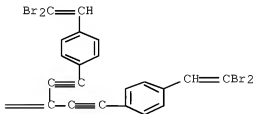
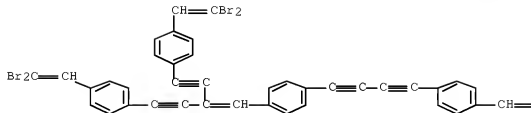
CAS Registry Number
206151-12-6 CASLIS

Chemical or Trade Name
Bismore, [[4-[[4-[[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl-
(9CI) (CA 28064 0046)



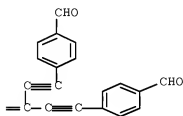
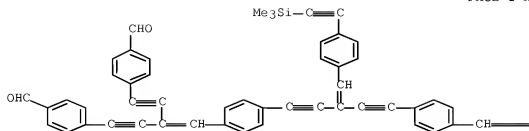
CAS Registry Number
206151-14-0 CASLIS

Chemical or Trade Name
Bismore, 2,2'-[[1,2-bis(4-ethynyl-1,4-dihydroxy-2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-
ynyl]- (9CI) (CA 28064 0046)



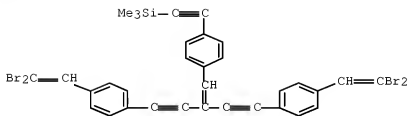
CAS Registry Number
206151-16-2 CASLIS

Chemical or Trade Name
Bismore, 2,2'-[[1,2-bis(4-ethynyl-1,4-dihydroxy-2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-
ynyl]- (9CI) (CA 28064 0046)



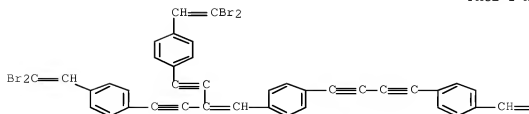
CAS Registry Number
717144-23-5 (9C1) (CA INDEX NAME)

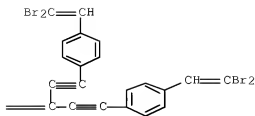
Chemical or Trade Name
Diacetylene, [[4-[[4-[[2,2-dibromomethenyl]phenyl]-2-[[4-[[2,2-dibromomethenyl]phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl-, radical ion(1-)] (9C1) (CA INDEX NAME)



CAS Registry Number
717144-24-6 (9C1) (CA INDEX NAME)

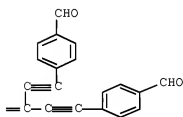
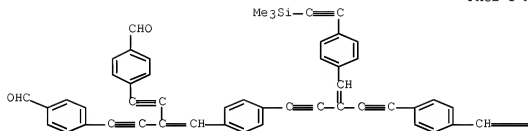
Chemical or Trade Name
Benzene, 3,3'-[[1,3-butadiene-1,4-diyl]bis[5-[[4-[[2,2-dibromomethenyl]phenyl]-2-[[4-[[2,2-dibromomethenyl]phenyl]ethynyl]-1-buten-3-ynyl]-2-]]]]- (9C2) (CA INDEX NAME)





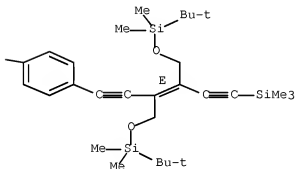
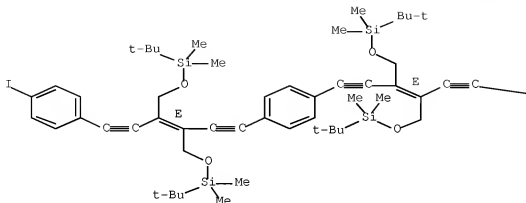
CAS Registry Number
717144-25-7 CASL05

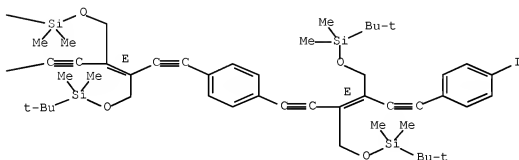
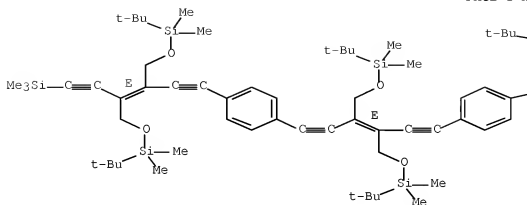
Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[6-[(4-methylallyl)ethoxy]]phenyl]ethylenyl]-3,4'-
pentadienyl-1,4-diyl]]bis-, radical ion(1-) (PCI) (CA INDEX NAME)



66 CITING REF COUNT: 2 THERE ARE 2 CASLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

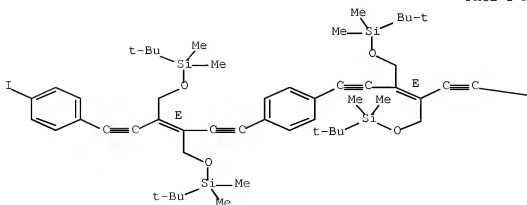
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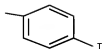




CAS Registry Number
704926-29-0 CAS125

Chemical or Trade Name
4,4'-Dioxa-3,10-bis[1,3-bis(tert-butyl dimethylsilyl)but-1-en-3-yl]-2,11-ethylenediyl bis[7-[(4-iodophenyl)ethynyl]-2,2,3,3,10,10,11,11-octamethyl-, (6R,6'E)- (9CI) (CA INDEX NAME)





00 CITING REF COUNT: 0 THERE ARE 0 CAPLUS RECORDS THAT CITE THIS RECORD
(0 CITINGS)

L4 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2003 491918 CAPLUS E66666

Document Number
139 395637

Title
Synthesis of differentially protected/undifferentiated acetylenic building blocks from p-benzoquinone and their use in the synthesis of new enedynes

Author/Inventor
Sankaranarayanan, Sathumaran, Srinivasan, Marivannan

Patent Assignee/Corporate Source
Department of Chemistry, Indian Institute of Technology Madras, Madras, 600 036, India

Source
Organic & Biomolecular Chemistry (2003), 1(13), 2385-2392 CODEN: OBCHAK; ISSN: 1477-0520

Document Type
Journal

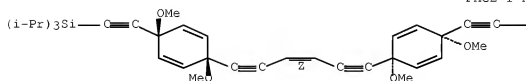
Language
English

Abstract
Sequential addition of two different lithium acetylides to p-benzoquinone yielded diastereomeric mixts. of 1,4-diethynylcyclohexa-2,5-diene-1,4-diols [R = (MeO)CH₂CH₂(BO)CH₂] with different protective functional groups on the two ethynyl groups. Selective monoprotection of the diols ethers, of 1 to the corresponding terminal acetylenes followed by Pd(0)-mediated coupling with (E)-1,5-dichloroethene yielded new enedynes 1 bearing cyclohexa-2,5-diene units.

Hi Structure

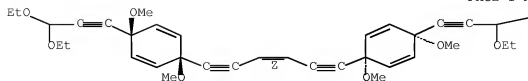
CAS Registry Number
626235-20-9 CAPLUS

Chemical or Trade Name
Diene, [[1,3,5-trimethoxy-1,5-diene-3,6-diylbis[[cinn-3,4-dimethoxy-2,5-cyclohexadiene-3,4-diyl]-2,1-ethynediyl]]bis[trimethylsilyl]- (SC1)
(CA, TRADER NAME)



CAS Registry Number
626235-21-0 CAPLUS

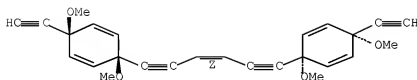
Chemical or Trade Name
Diene, [[1,3,5-trimethoxy-1,5-diene-3,6-diylbis[[6-(3,3-dimethoxy-1-propenyl)-3,4-dimethoxy-, (cinn-3,4-diyl)- (SC2) (CA, TRADER NAME)





CAS Registry Number
626235-22-1 CAPLUS

Chemical or Trade Name
1,4-Cyclohexadiene, 3,3',-(13Z)-3-hexene-1,5-diyne-1,6-diylbis[6-ethynyl-3,6'-dimethoxy-, (Z), (E)]- (9CI) (CA INDEX NAME)



CC-CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
3902334291 CAPLUS E-Index
Document Number
136 85005

Title
Arylene scaffolding on solid support: Poly(trisubstituted)-derived oligomers by Sonogashira and Cadiot-Chodkiewicz-type cross-coupling reactions

Author(s)
Ulrich, Nils F.; Diederich, Francois
Patent Assignee Corporate Source
Laboratorium für Organische Chemie, ETH-Hönggerberg, HCI, Zurich, CH-8093, Switzerland

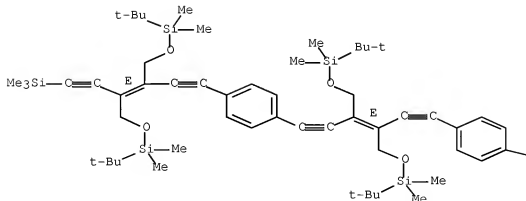
Source
Organic & Biomolecular Chemistry (2003), 1(2), 237-239 CODEN OBCRAK, ISSN: 1477-0509

Document Type
Journal
Language
English

Abstract
Synthesis of poly(trisubstituted)-derived oligomers by Pd(0)-catalyzed Sonogashira and Cadiot-Chodkiewicz-type cross-coupling reactions on solid support is reported. Oligo(phenylene triarylene)s, e.g., [4-(CH4C)spand OCR CRC (spand C)H3W3 (R = CH2CH2BuMe2, n = 1, 2, 3, 4) members of a new class of linearly π -conjugated oligomers with all-C backbones, feature very high fluorescence intensities.

CAS Registry Number
554459-62-0 CAPLUS

Chemical or Trade Name
4,9-Dioxo-3,10-dimethyladodec-6-ene, 6-[[4-[[[3E]-5,6-bis[[[1,1,1-trimethyl(ethoxy)dimethylsilyl]oxy]methyl]-5-(4-iodophenyl)-3-hexene-1,5-diynyl]phenyl]ethynyl]-2,4,5,6,10,10,11,12-octamethyl-3-[[[1,1,1-trimethyl(ethoxy)dimethylsilyl]oxy]methyl]-, (E)- (9CI) (CA INDEX NAME)

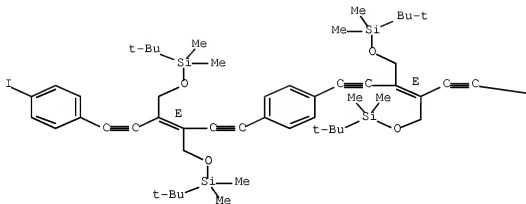


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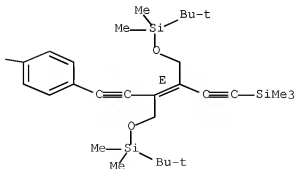
CAS Registry Number
554459-63-1 CAS103

Chemical or Trade Name
4,9-Dioxo-3,10-dihydrodec-6-ene, 6-([4-[(3E)-6-[4-[(3E)-3,6-bis[[[(1,1-dimethylethoxy)dimethylsilyl]oxy]methyl]-4-[(4-oxopentyl)-2-buten-1,2-diynyl]phenyl]-3,6-bis[[[(1,1-dimethylethoxy)dimethylsilyl]oxy]methyl]-3-buten-1,2-diynyl]phenyl]ethynyl]-2,2,7,7,10,10,11,11-octamethyl-7-[(trimethylsilyl)ethynyl]-, (E)-, (Z)-, (E)-, (Z)-) (CA 3086A NAME)

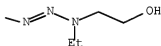
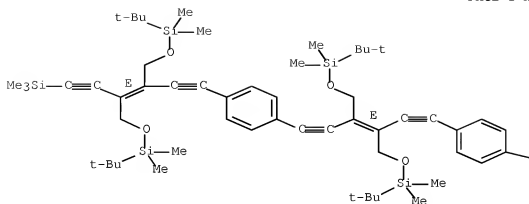
PAGE 1-A



PAGE 1-B

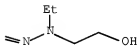
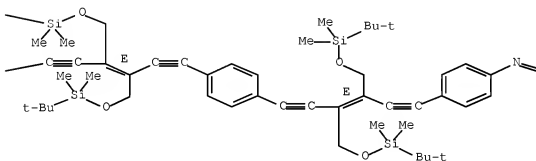
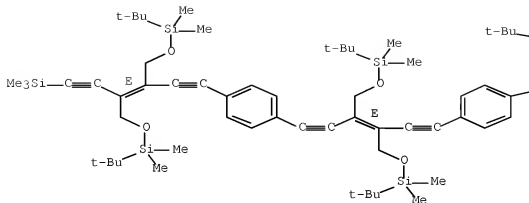


CAS Registry Number



CAS Registry Number
554459-12-2 CAS105

Chemical or Trade Name
Ethanol, 2-[3-[4-[(3E)-6-[4-[(3E)-6-[4-bis[[[1,1-dimethylethyl]dimethylsilyl]oxy]methyl]-6-[(trimethylsilyl)-3-buten-2,3-diyol-1-yl]phenyl]-3,4-bis[[[1,1-dimethylethyl]dimethylsilyl]oxy]methyl]-3-buten-2,3-diyol-1-yl]phenyl]-3,4-bis[[[1,1-dimethylethyl]dimethylsilyl]oxy]methyl]-3-buten-2,3-diyol-1-yl]phenyl]-1-ethyl-3-tetrazene-1-yl]- (CA INDEX NAME)



08 CITING REF 000074 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

L4 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2007 004890 CAPLUS F4(3rd)

Document Number

137208374

Title

Manufacturing method of semiconductor device using mask pattern having high etching resistance

Author/Inventor

Onuchi, Junko; Sato, Yasuhiko; Shirobara, Eisai; Hayashi, Hisataka; Ohno, Tokuhide; Onishi, Yasunobu

Patent Assignee/Corporate Source

Kabushiki Kaisha Toshiba, Japan

Source

U.S. Pat Appl Publ- 26 pp CODEN USXXCO

Document Type

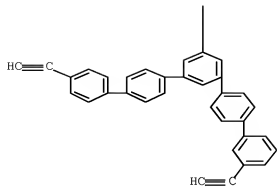
Patent

Language

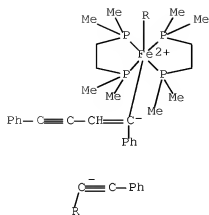
English

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
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00 CITING REF COUNT: 0 THERE ARE 0 CAPTION RECORDS THAT CITE THIS RECORD (0 CITINGS)



08 CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

L4 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
3501714296 CAPLUS Fulltext
Document Number
136 69640

Title
Synthesis and spectroscopic studies of expanded planar dehydrobenzo[*a*]annulenes containing one or two isolated alkene units

Author/Inventor
Wan, W. Brad, Chiesi, Ryan C., Weskley, Timothy J. R., Holey, Michael M.
Patent Assignee/Corporate Source
Department of Chemistry and the Materials Science Institute, University of Oregon, Eugene, OR, 97403-1253, USA

Source
European Journal of Organic Chemistry (2001), (16), 3483-3490 CODEN EJOCFK, ISSN: 1436-193X

Document Type
Journal

Language
English

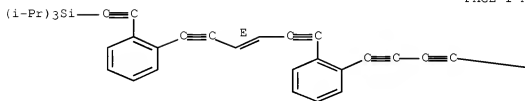
Abstract
Dehydrobenzoannulene derivs. containing isolated alkene linkages, e.g., 1, were synthesized by combining an in situ Pd/Ca-mediated cross-coupling with an intramol. cyclization strategy. ¹H NMR studies of these macrocycles and comparison with related systems verify that highly alkynylated dehydrobenzoannulenes possess weak induced ring currents, indicative of aromatic (4n+2 π systems) and antiarom. (4n π systems) behavior, in spite of their large size and extensive benzenoid annulation.

HR Structure

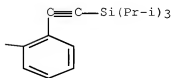
CAS Registry Number
214620-17-8 CAPLUS

Chemical or Trade Name
Silane, tri[1-(methyl-ethynyl)][2-[(13E)-6-[2-[4-[2-[(tri-1-methyl-ethynyl)isopropyl]ethynyl]phenyl]-3-butadienyl]phenyl]-3-hexene-1,5-diynyl]phenyl]ethynyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



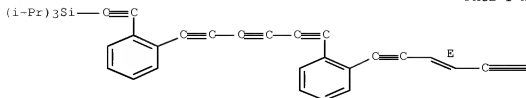
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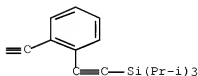
CAS Registry Number
214620-10-9 CAPLUS

Chemical or Trade Name
Silane, tri(1-methylethyl)[[2-[6-[2-(1,3,5-trimethylphenyl)ethynyl]phenyl]-3-hexene-1,5-diynyl]phenyl]-1,3,5-hexamethylphenylethynyl]- (9C2) (CA INDEX NAME)

PAGE 1-A



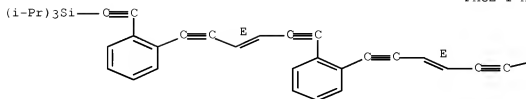
PAGE 1-B



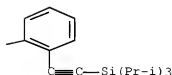
CAS Registry Number
363404-30-4 CAPLUS

Chemical or Trade Name
Silane, [1,2-phenylenebis[[3E]-3-hexene-1,5-diynyl-2,1-phenylene-2,1-methylenediyl]bis[triisopropylethynyl]]- (9C3) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OR CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2000 892492 CAPLUS FILED

Document Number

134310920

Title

Bis(ene-diyne) Macrocycles: Synthesis, Reactivity, and Structural Analysis

Author (inventor)

Blanchette, H. S.; Brand, S. C.; Naruse, H.; Weakley, T. J. R.; Haley, M. M.

Patent Assignee/Corporate Source

Department of Chemistry, University of Oregon, Eugene, OR 97403-1253, USA

Source

Tetrahedron (2000), 56(48), 9581-9588 CODEN: TETRAH, ISSN: 0040-4020

Document Type

Journal

Language

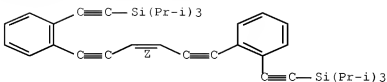
English

Abstract: The authors describe the syntheses of five macrocycles possessing two enediyne warheads, along with the structural and thermal analyses of these bis(enediyne) compounds. The solid-state packing of one of the compounds suggests the possibility for the mol to undergo a topochemical diastereoselective polymerization.

HR Structure

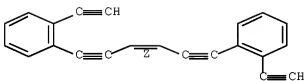
CAS Registry Number
315370-30-6 CAPLUS

Chemical or Trade Name
Silane, [(3E)-3-benzene-1,5-diyne-1,6-diylbis(2,1-phenylene-2,1-ethynediyl)]bis(triphenylsilyl)- (90CI) (CA INDEX NAME)



CAS Registry Number
315370-30-8 CAPLUS

Chemical or Trade Name
Benzene, 3,3'-[(3E)-3-benzene-1,5-diyne-1,6-diylbis(2-ethynyl)- (90CI) (CA INDEX NAME)



08 CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2000 787122 CAPLUS Fulltext

Document Number
13471351

Title
Synthesis and structure of a new [6.6]metacyclopentene with enediyne bridges

Author/Inventor
Girivassan, Manivassan; Sankararaman, Dehuranam; Du, Ina Jones, Peter G.

Patent Assignee/Corporate Source
Department of Chemistry, Indian Institute of Technology, Madras, 600 096, India

Source
Organic Letters (2000), 22(4), 3649-3651 CODEN: ORLEFF; ISSN: 1523-7060

Document Type
Journal

Language
English

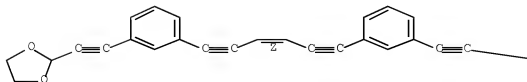
Abstract

Synthesis and structure of a novel [6.6]metacyclopentene with enediyne bridges I is reported. I was prepared by reacting 1,3-difluorobenzene with EtMgBr/THF and DMF to give the monoaldehyde. The monoaldehyde was subsequently converted to the acetal, coupled with ClCH2CHCl2 to give bis-acetal, which was hydrolyzed to the dialdehyde II. II underwent McMurry coupling using TiCl3 and Zn-Cu couple in DME to give I in 69% yield.

HR Structure

CAS Registry Number
315726-30-6 CAPLUS

Chemical or Trade Name
1,3-bis(acetalene, 2,2'-[(3E)-3-benzene-1,5-diyne-1,6-diylbis(2,1-phenylene-2,1-ethynediyl)]bis- (90CI) (CA INDEX NAME)

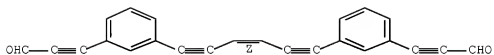


PAGE 1-A



CAS Registry Number
31574-91-7 CAPLOS

Chemical or Trade Name
2-Propynyl, 3,3'-[1,3,5-bis(2-ethynyl-4-phenylene)-1,4-phenylene]bis-
(9CI) [TA INDEX NAME]



GS CITING REF COUNT: 18 THERE ARE 18 CASLUS RECORDS THAT CITE THIS
RECORD (18 CITINGS)

Accession Number
1999-07316 CAPLUS [Full-text](#)

Document Number
131 337369

Title

Electronic structure of fully conjugated dendritic oligomers of β - β -dibromo-4-ethyl styrene

Author/Inventor

Fomina, Serguei; Fomina, Ludmila; Guadarrama, Patricia

Patent Assignee/Corporate Source

Universidad Nacional Autónoma México, Instituto Investigaciones en Materiales, Coyoacán, 04510 CU, Mex.

Source

Journal of Molecular Structure: THEOCHEM (1999), 488, 267-216 CODEN: THEODJ, ISSN: 0166-1280

Document Type

Journal

Language

English

Abstract

Quantum-mech. calcs. of fully conjugated dendritic oligomers carried out at B3LYP/3-21G//HF/3-21G (d) and B3LYP/3-21G//PNO levels of theory showed that loose dendritic architecture of β - β -dibromo-4-ethyl styrene oligomers contributes little to the instability and conjugation disruption compared to 1- \rightarrow 2 branched polyacetylene, while Br terminal atoms in dendrimers strongly affect the electronic d. distribution in stacked molts. On the one hand the bulky bromine atoms decrease the conjugation in Br-terminated dendrimers caused by steric hindrances, on the other hand, highly polarizable bromine atoms induced significantly adiabatic ionization potentials (IPs) to be up to 1.5 eV lower than corresponding vertical potentials (IPs). Another phenomenon contributing to the reducing of IPs of all-dendrimers is the flattening of mol. geometry accompanying the ionization thus allowing better delocalization of pos. charge over the conjugated system while all aromatic ring except the very outer layer lost their aromaticity becoming essentially quinone by nature.

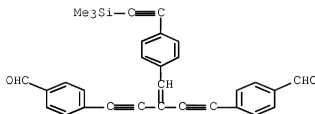
Hi Structure

CAS Registry Number

206191-11-7 CAPLUS

Chemical or Trade Name

Benzoindole, 5,4'-[3-[[4-[[trimethylsilyl]ethynyl]phenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis- (9CI) (CA 330EX 3086)

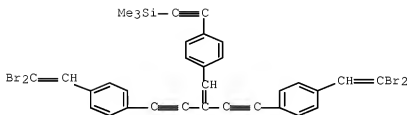


CAS Registry Number

206191-12-0 CAPLUS

Chemical or Trade Name

Silane, [[4-[[4-[[2,2-dibromoethenyl]phenyl]-2-[[4-[[2,2-dibromoethenyl]phenyl]ethynyl]-3-buten-3-ynyl]phenyl]ethynyl]trimethyl- (9CI) (CA 330EX 3086)

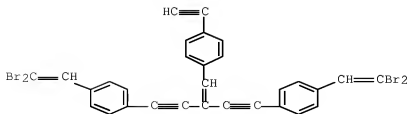


CAS Registry Number

206191-13-9 CAPLUS

Chemical or Trade Name

Benzoindole, 3,1'-[3-[[4-ethyl]phenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis(4-[[2,2-dibromoethenyl]- (9CI) (CA 330EX 3086)

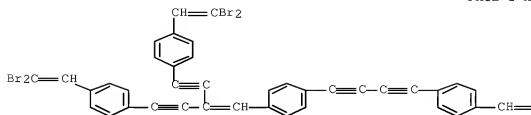


CAS Registry Number

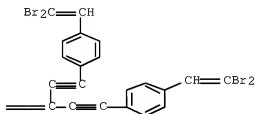
206191-14-0 CAPLUS

Chemical or Trade Name
Benzene, 1,1'-[1,3-butadiene-1,4-diyl]bis[4-{4-[4-(2,2-dibromoethyl)phenyl]-2-[(4-(2,2-dibromoethyl)phenyl)ethynyl]-1-buten-3-ynyl]- (DCE) (CA INDEX NAME)

PAGE 1-A

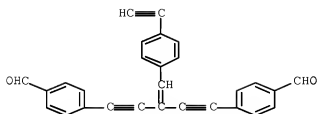


PAGE 1-B



CAS Registry Number
206191-70-1 (DCE)

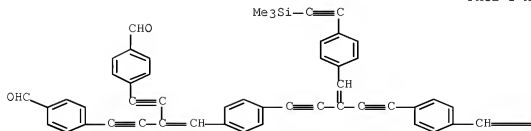
Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[(4-ethynylphenyl)methylene]-3,4-pentadiene-1,5-diyl]bis- (CA INDEX NAME)

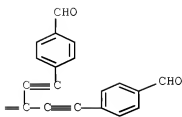


CAS Registry Number
206191-16-2 (DCE)

Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[(4-[(trimethylsilyl)ethynyl]phenyl)methylene]-3,4-pentadiene-1,5-diyl]bis[4-(1-phenyl)-3-[(4-formylphenyl)ethynyl]-1-buten-1-ynyl]- (DCE) (CA INDEX NAME)

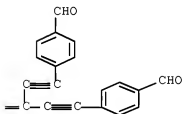
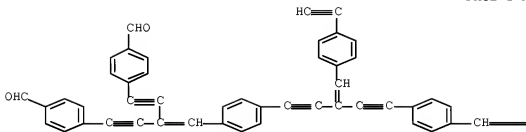
PAGE 1-A





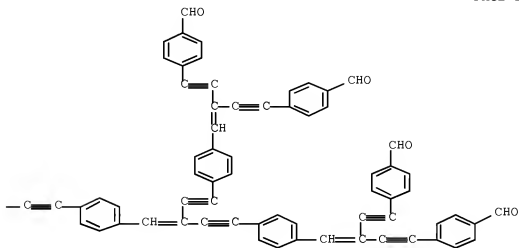
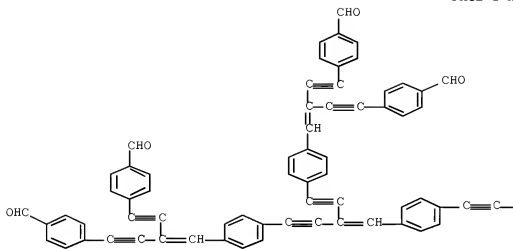
CAS Registry Number
206181-77-3 CAPLIS

Chemical or Trade Name
Benzaldehyde, 4,4'-[[3-[[4-ethynylphenyl]methylene]-1,4-pentadiyne-1,5-diyl]bis(4,1-phenylene)]-3-buten-1-yne-6,1-diyl]]bis- (PCT) (CA 23086 8006)



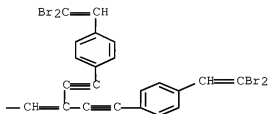
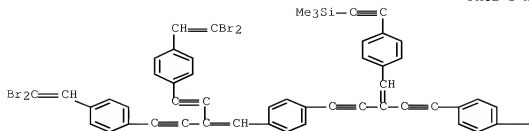
CAS Registry Number
206181-78-4 CAPLIS

Chemical or Trade Name
Benzaldehyde, 4,4'-[[1,3-butadiyne-1,4-diyl]bis(4,1-phenylene)]-3-[[4-[[4-ethynylphenyl]-2-[[4-ethynylphenyl]ethynyl]-2-buten-3-ynyl]phenyl]ethynyl]-3-buten-1-yne-4,1-diyl]-4,1-phenylene]]-3-buten-1-yne-6,1-diyl]]bis- (PCT) (CA 23086 8006)



CAS Registry Number
206181-19-5 CAS105

Chemical or Trade Name
Silane, [[4-[[4-[[4-[[4-12,2-dibromoethenyl]phenyl]-2-[[4-[[4-2-
dibromoethenyl]phenyl]ethynyl]-1-buten-3-ynyl]phenyl]-2-[[4-[[4-12,2-
dibromoethenyl]phenyl]-2-[[4-[[4-2-dibromoethenyl]phenyl]ethynyl]-1-buten-3-
ynyl]phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl- (9CI) (CA
INDEX NAME)



05 CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
199 65086 CAPLUS [Fulltext](#)
Document Number
132 16702

Title
Theoretical description of luminescent effects in β -di(4'-formylphenyl)ethynyl-4-ethynylstyrene

Author(s)

Sacido, R.; Guadarrama, P.; Santos, L. E.; Fomine, S.; Fomine, L.

Patent Assignee/Corporate Source

Instituto de Investigaciones en Materiales, Instituto de Investigaciones en Materiales, UNAM, Mexico, 04510, Mex.

Source
Materials Research Society Symposium Proceedings (1999), 560(Luminescent Materials), 359-364 CODEN MRSPDH, ISSN: 0272-9172

Document Type

Journal

Language

English

Abstract

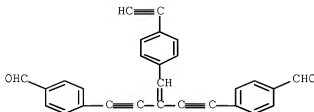
Theor. calcs. at HF/6-31 G(d) level were carried out on fully conjugated compds. (4-ethynylbenzaldehyde, β -di(4'-ethynylstyrene), β -di(4'-formylphenyl)ethynyl-4-ethynylstyrene and its dimer) to understand the source of blue emission observed in oligomers of the 1st and 2nd generation in CHCl₃ solns. The frontier orbitals are distributed through the framework of the mol's (benzene rings, double and triple bonds and chromophores). Additionally, a CI approach was applied over β -di(4'-formylphenyl)ethynyl-4-ethynylstyrene (compound 3) at CE/6-31 G(d) level to modeling excited states and simulate the UV-visible spectrum exptl. obtained. Calculated transitions corresponded to S₀-S₁ which are, presumably, responsible for the fluorescence observed.

Hit Structure

CAS Registry Number
206192-75-1 CAPLUS

Chemical or Trade Name

Benzaldehyde, 4,4'-[3-[(4-ethynylphenyl)methylene]-3,4-pentadiyne-1,5-diyl]bis- (CA INDEX NAME)

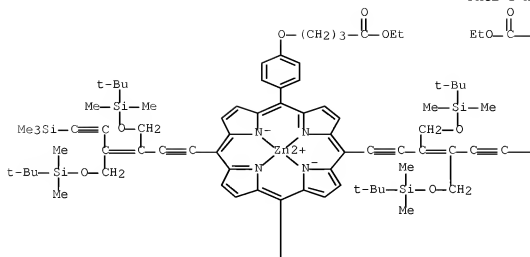


CAS Registry Number
201479-94-2 CAPLUS

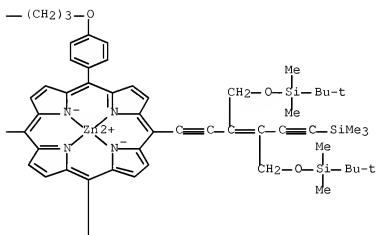
Chemical or Trade Name

Benzaldehyde, 4,4'-[3-[(4-ethynylphenyl)methylene]-3,4-pentadiyne-1,5-diyl]bis- (CA INDEX NAME)

PAGE 1-A

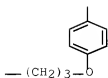


PAGE 1-B



PAGE 2-A





C6 CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (45 CITINGS)

L4 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

1998 605810 CAPLUS Fulltext

Document Number

129 302407

Title

Synthesis of expanded planar dehydrobenzannulenes: weakly diatropic, weakly paratropic, or atropic?

Author(s)

Wan, W.; Brad, Kimball; David B.; Haley, Michael M.

Patent Assignee/Corporate Source

Department of Chemistry, University of Oregon, Oregon, 97403-1253, USA

Source

Tetrahedron Letters (1998), 39(38), 6795-6796 CODEN: TETLEA; ISSN: 0040-4039

Document Type

Journal

Language

English

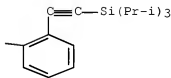
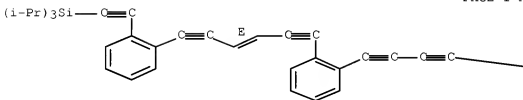
Abstract

Use of a Cu/PM cross-coupling strategy has led to the synthesis of the first dehydrobenzannulenes [X = C (p) bond C, (E)-CH=CH; n = 5, 6] containing biacetylenic linkages. NMR studies of these macrocycles and comparison with other known systems indicate that, in spite of their large size and extensive benzannulation, dehydrobenzannulenes possess weak induced ring currents.

Hi Structure

CAS Registry Number
214620-17-9 CAPLUS

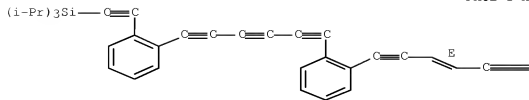
Chemical or Trade Name
Silene, tris[1-methyl[ethynyl]([2-[(6-[(3E)-6-[(2-[(trise[1-methyl[ethynyl]is[2]ethynyl]phenyl])-5,3-butadiynyl]phenyl])-3-hexene-1,5-diynyl]phenyl]ethynyl])- (3CI) (CA INDEX NAME)



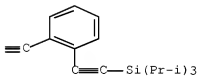
CAS Registry Number
214620-18-9 CAPLUS

Chemical or Trade Name
Silene, tris[1-methyl[ethynyl]([2-[(6-[(3E)-6-[(2-[(trise[1-methyl[ethynyl]is[2]ethynyl]phenyl])-3-hexene-1,5-diynyl]phenyl])-1,3,5-henatriynyl]phenyl]ethynyl])- (3CI) (CA INDEX NAME)

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65 CITING REF COUNT: 26 THERE ARE 26 CASLUS RECORDS THAT CITE THIS
RECORD (27 CITINGS)

L4 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1992-251052 CAPLUS E[6]br

Document Number
128-257221

Title

Steric Hindrance Facilitated Synthesis of Enynes and Their Intramolecular [4 + 2] Cycloaddition with Alkynes

Author(s)

Gonzalez, Juan J.; Francesch, Andres; Cardenas, Diego J.; Echavarran, Antonio M

Patent Assignee/Corporate Source

Departamento de Quimica Organica, Universidad Autonoma de Madrid, Madrid, 28049, Spain

Source

Journal of Organic Chemistry (1996), 63(9), 2854-2857 CODEN JOCEAH, ISSN 0022-3263

Document Type

Journal

Language

English

Abstract

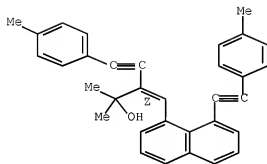
The palladium-catalyzed insertion of 1-alkynes into internal alkenes which are bent out of linearity by the interference with a pen or ortho substituent led to enynes regioselectively. The resulting enynes undergo a new type of intramolecular thermal cycloaddition, which can be used for the annulation of an aryl ring onto naphthalene derivs. to afford furanthenes. The cycloaddition of (E)-1-(1-buten-3-ynyl)-5-ethynynaphthalene could also be performed in the presence of a Cu(I) catalyst at room temperature.

HI Structure

CAS Registry Number
205124-30-6 CAPLUS

Chemical or Trade Name

4-(pent-2-en-1-yl)-2-methyl-5-(4-methylphenyl)-3-[(E)-2-(4-methylphenyl)ethynyl]-1-naphthalenyl[methylene]-, (3Z)- (CA INDEX NAME)



OC CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1998-247833 CAPLUS E[6]br

Document Number
128-295129

Title

Synthesis and characterization of well-defined fully conjugated hyperbranched oligomers of β,β -dibromo-4-ethynylstyrene

Author(s)

Ferns, Lourdes; Guadarrama, Patricia; Fomne, Serguei; Salcedo, Roberto; Ogawa, Takashi

Patent Assignee/Corporate Source

Instituto Investigaciones Materiales, Univ. Nacional Autonoma de Mexico, Mexico, 04510, Mex.

Source

Polymer (1996), 39(12), 2629-2635 CODEN POLMAG, ISSN 0032-3661

Document Type

Journal

Language

English

Abstract

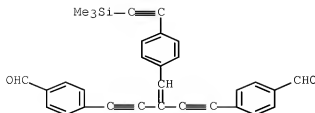
Well-defined dendritic oligomers of poly(β,β -dibromo-4-ethynylstyrene) of the first and second generation were synthesized by a stepwise synthesis, and characterized. NMR and their colors showed that free rotation around formal single bonds is hampered by conjugation. All of the oligomers were blue emitters with their emission maxima correlating with the number of repeating units. All dendrimers except β,β -di(β,β' -dibromostyryl)-4-ethynylstyryl-4-ethynyl-4-ethynylstyrene showed two maxima in the excitation spectra.

HI Structure

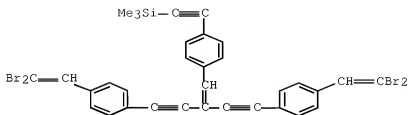
CAS Registry Number
206381-71-7 CAPLUS

Chemical or Trade Name

Benzaldehyde, 4,4'-bis-[(E)-2-(4-methylphenyl)ethynyl]phenyl[methylene]-1,4-pentadiyne-1,5-diyl[ole]- (9CI) (CA INDEX NAME)

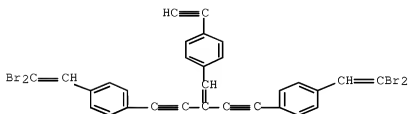


Chemical or Trade Name
Silane, [4-[4-[4-(2,2-dibromoethenyl)phenyl]-2-[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]phenyl]ethynyl]trimethyl-(9CI) (CA INDEX NAME)



CAS Registry Number
206181-73-9 CAPLOS

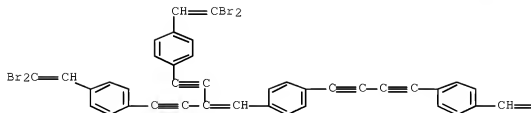
Chemical or Trade Name
Benzene, 3,1'-[3-[(4-ethynylphenyl)methylene]-1,4-pentadiyne-1,5-
diyl]bis[4-(2,2-dibromoethenyl)- (9CI) (CA INDEX NAME)



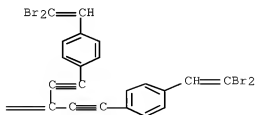
CAS Registry Number
206183-74-0 CAP128

Chemical or Trade Name
Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis[4-[[4-(2,2-dibromoethenyl)phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-1-buten-3-ynyl]]- (9CI) (CA INDEX NAME)

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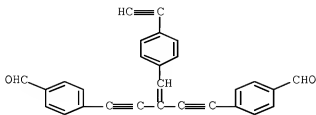


PAGE 1-B



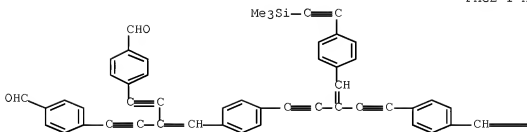
CAS Registry Number
206181-15-1 CAPLITE

Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[(4-ethynylphenyl)methylene]-1,6-pentadiyne-1,5-
diyl]bis- (CA INDEX NAME)



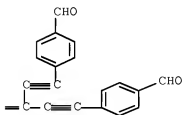
CAS Registry Number
264301-76-2 (AFL10)

Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[[3-[[4-[(trimethylsilyl)ethynyl]phenyl)methylene]-1,4-
pentadiyne-1,5-diyl]bis(4,1-phenylene[3-[[4-(formylphenyl)ethynyl]-3-buten-
1-yn-4,1-diyl]]]bis- (9C1) (CA INDEX NAME)



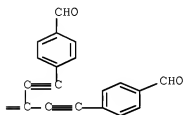
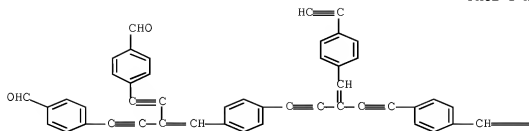
PAGE 1-A

PAGE 1-B



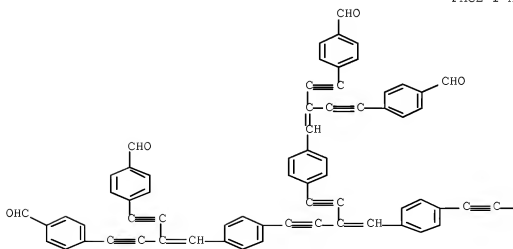
CAS Registry Number
206180-77-3 (AFL10)

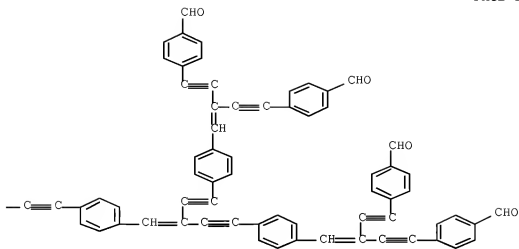
Chemical or Trade Name
Benzaldehyde, 4,4'-[3-[[3-[[4-ethynylphenyl)methylene]-1,6-pentadiyne-1,5-
diyl]bis(4,1-phenylene[3-[[4-(formylphenyl)ethynyl]-3-buten-1-yn-4,1-
diyl]]]bis- (9C1) (CA INDEX NAME)



CAS Registry Number
206181-10-4 CASLISTS

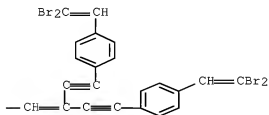
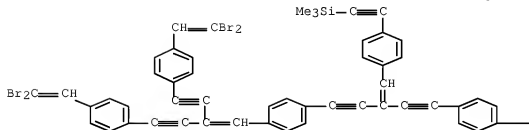
Chemical or Trade Name
Benzaldehyde, 4,4'-[1,3-butadiyne-1,4-diylbis[4,1-phenylene[3-[[4-[4-(4-oxo-1-phenylbut-1-en-3-yn-1-yl)phenyl]ethynyl]-3-buten-1-yn-4,2-diyl]-4,5-phenylene[3-[[4-(4-oxo-1-phenylbut-1-en-3-yn-1-yl)phenyl]ethynyl]-3-buten-1-yn-4,2-diyl]]]bis- (PCT) (CA INDEX NAME)





CAS Registry Number
204191-19-5 CAPLUS

Chemical or Trade Name
Silace, [4-[[4-[[4-[[4-[[2,2-dibromoethenyl]phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-2-buten-3-ynyl]phenyl]-2-[[4-[[4-[[2,2-dibromoethenyl]phenyl]-2-[[4-(2,2-dibromoethenyl)phenyl]ethynyl]-2-buten-3-ynyl]phenyl]ethynyl]-2-buten-3-ynyl]phenyl]ethynyl]-2-buten-3-ynyl]phenyl]ethynyl]triethyl- (SC1) (CA INDEX NAME)



OR CITING REF CORRECT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L4 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1996-303190 CAPLUS E4(304)
Document Number
125.11502

Title
Synthesis and polymerization of β -dibromo-4-ethynylstyrene, preparation of a new polyconjugated, hyperbranched polymer
Author/Inventor
Fornia, Liduán; Salgado, Roberto

Patent Assignee/Corporate Source
Inst. Investigaciones Materiales, Circuito Exterior, Ciudad Univ., Mexico City, 04510, Mex.

Source
Polymer (1996), 37(5), 1753-1758 CODEN: POLMAG; ESN: 0032-3861

Document Type
Journal

Language
English

Abstract

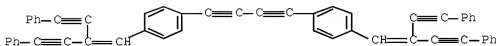
The monomer, *p,p'*-di(4-ethynylphenyl)ene, was prepared and polymerized by the Heck reaction to give a partially soluble, conjugated hyperbranched polymer. The polymer structure was elucidated using standard spectroscopic techniques and with the aid of model compound syntheses. Their colors, using the AM1 method were carried out and showed that conjugation in the polymer is partially disrupted by twisting of the benzene rings.

Both the model compound and the polymer showed luminescence

Hit Structure

CAS Registry Number
117426-40-1 CAPLUS

Chemical or Trade Name
Benzene, 1,1'-[1,3-butadiene-3,4-diyl]bis[4-(4-phenyl-2-(phenylethynyl)-1-buten-3-ynyl)]- (PC1) (CA INDEX NAME)



08 CITING REF COUNT: 16 THERE ARE 16 ONLINE RECORDS THAT CITE THIS RECORD (16 CITATIONS)

L4 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1995 846580 CAPLUS Fulltext

Document Number
1249540

Title
Novel polymers containing discrete conjugated units, produced by the Heck reaction

Author/Inventor

Farrina, Sergio; Fontana, Lucindia; Fiorentino, Hector; Guirrez, Mendez, Juan Manuel; Ogawa, Takeshi

Patent Assignee/Corporate Source

Instituto de Investigaciones en Materiales, Universidad Nacional Autonoma de Mexico, Coyoacan, 04510, Mex.

Source
Polymer Journal (Tokyo) (1996), 27(11), 1085-93 CODEN: POLJEB; ESN: 0032-3896

Document Type
Journal

Language
English

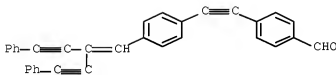
Abstract

Novel monomers and polymers containing arylenevinyleneethynylene groups were synthesized via the Heck reaction. The polymers were amorphous and soluble in common organic solvents. They have T_g approx 60°, 5% weight loss at 540-560° and undergo thermal crosslinking at 170-180° with loss of triple bonds. One of the polymers exhibits strong blue luminescence with emission maxima approx 380-395 and 470-480 nm with excitation at 320 nm. All polymers show 3rd order NLO susceptibility approx 10⁻¹⁰ esu.

Hit Structure

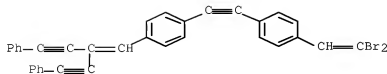
CAS Registry Number
11226-99-1 CAPLUS

Chemical or Trade Name
Benzaldehyde, 4-[2-{4-[2-(4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl)]phenylethynyl}]-(CA INDEX NAME)



CAS Registry Number
11226-99-1 CAPLUS

Chemical or Trade Name
Benzene, 3-[2-{4-[2-(4-dibromomethylphenyl)ethynyl]}-4-(4-phenyl-2-(2-phenylethynyl)-3-buten-3-yn-1-yl)]-(CA INDEX NAME)



CAS Registry Number
11226-99-1 CAPLUS

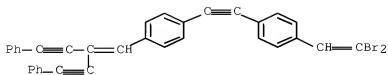
Chemical or Trade Name
Decanedioic acid, di-(2-phenylethynyl) ester, polymer with 1-[4-(2,4-dibromomethylphenyl)ethynyl]-4-(4-phenyl-2-(2-phenylethynyl)-3-

Buten-3-ynyl]benzene (SCI) (CA INDEX NAME)

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CRN 173296-96-1

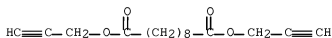
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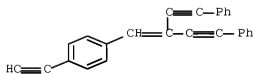
CRN 93264-22-8

CMF C16 H32 O4



CAS Registry Number
171297-02-2 CMFLOS

Chemical or Trade Name
Benzene, 3-ethynyl-4-[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]-
(CA INDEX NAME)



65-CITING REF COUNT: 11 THERE ARE 11 CASUS RECORDS THAT CITE THIS
RECORD (11 CITINGS)

Document Number
123-33763

Title _____

Synthesis and molten-state polymerization of some novel conjugated diacetylenes

Author/Inventor:

Fomina, Lioudmila; Allier, Hector; Fomina, Sergei; Salcedo, Roberto; Ogawa, Takeshi

Patent Assignee/Corporate Source

Inst. Investigaciones Materiales, Ciudad Univ., Mexico, 0-4510, Mexico

Source: Polymer Journal (Tokyo) (1995), 27(6), 591-608 CODEN POLJBS, ISSN 0032-3896

Polymer
Document Type

Document Type
Journal

Journal
Language

English

Abstract

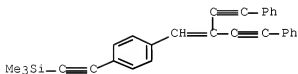
A series of new, highly conjugated diacetylenes, 4-ethynyltoluene derivs., was synthesized and their polymerization was studied. None of them was found to undergo topochem. polymerization in the solid state but they readily polymerized in the molten state to give red transparent and amorphous polymers. All the polymers had an absorption maximum in the visible spectra around 500 nm, and FT-IR data showed the alkyne structure of the polymer chain resulted from 1,4-addition.

Hy Structure

CAS Registry Number
164461-30-5 CNFL02

164491-36-5 EXPLOS

Chemical or Trade Name
Benzene, 1-[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]-4-[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



CAS Registry Number
164461-25-8 CAPLITE

164651=45=0 CAS/22

3,5-Hexadiyn-1-ol, 6-[4-[6-phenyl-2-(phenylethynyl)-1-buten-3-ynyl]phenyl]-, homopolymer (PCT) (CA INDEX NAME)

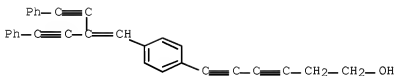
J. Neurophysiol. 73:1033–1041, 1995. Copyright © 1995 Society for Neuroscience 0893-7297/95/071033-09\$05.00/0

CX

1

CPM 164467-20-3

CNF C39 H20 O

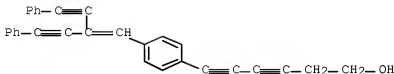


CAS Registry Number
164467-20-3 CAPLOS

100001-100002 CAPS

Chemical and Physical Properties

3,5-Hexadiyn-1-ol, 6-[4-[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]phenyl]- (CA INDEX NAME)



08 CITING REF COUNT: 11 THERE ARE 11 CARLOS RECORDS THAT CITE THIS
RECORD (11 CITINGS)

L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

1994-52234 CAPLUS Full-Box

Document Number
100-100000

1992

Title Difluoride derivative and liquid crystal composition containing the same

Author: *Investing*

Yoshitoku Ogami, Isao Inoue, Jun Koh, Hiromasa

Patent Assignee/Corporate Source

PCT Int. Appl., 49 pp. CODEN: PBOXD2

Document Type

Document Type
Patent

Language

language

Patent information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
WO 9405413	A1	19940317	WO 1993-021125	19930901
KP 62858	A1	19941214	EP 1993-919602	19930901
JP 06243641	JP	19940920	JP 1993-219709	19930903
JP 3564711	B2	20040915		
US 6119051	A	19950531	US 1994-211625	19940420
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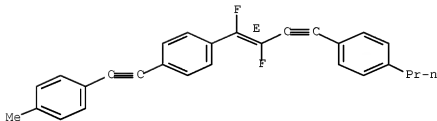
Abstract

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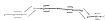
Hybrid Structure

CAS Registry Number
156869-08-8 CAPLUS

Chemical or Trade Name
Benzene, 1-[1,2-difluoro-4-(4-propylphenyl)-1-buten-3-ynyl]-4-[(4-methylphenyl)ethynyl]-, (E)- (9CI) (CA INDEX NAME)



08.CITING REF COUNT: 1 THERE ARE 1 CARLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)



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chain bonds :
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exact bonds :
1-2 2-3 3-4 4-5 5-6 8-9 9-15 15-16 16-17 17-18
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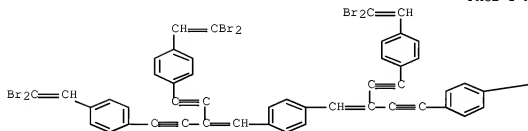
Gl, Cb, Cv, Ry

G2: C, H, S, Cb, Cy, My

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:CLASS 9:CLASS 11:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom

CAS Registry Number
754233-12-3 CASFUS

Chemical or Trade Name
Benzene, 1,4-bis[4-[(4-(2,2-dibromovinyl)phenyl)-2-[[4-(2,2-dibromovinyl)phenyl]ethynyl]-3-buten-3-ynyl]-2-[[4-(2,2-dibromovinyl)phenyl]ethynyl]-1-buten-3-ynyl]- (9CI) (CA INDEX NAME)



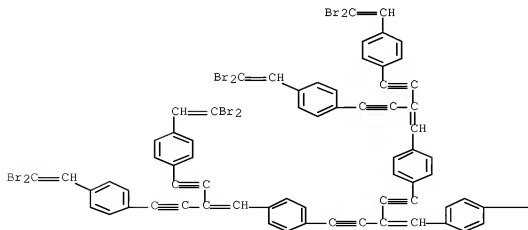
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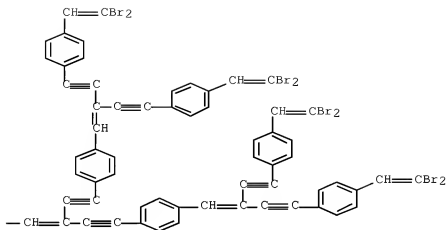


CAS Registry Number
754233-16-4 CASFUS

Chemical or Trade Name
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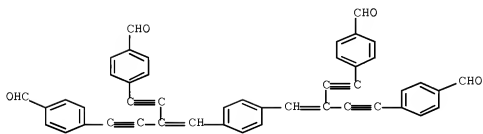


PAGE 1-A



CAS Registry Number
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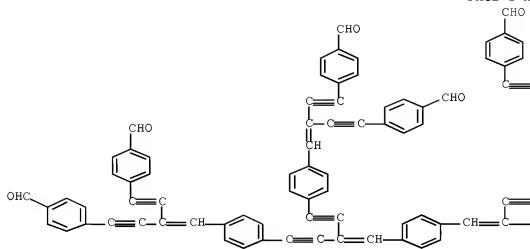
Chemical or Trade Name
Benzaldehyde, 4,4'-bis[3-[[4-(4-(4-formylphenyl))-2-[(4-formylphenyl)ethynyl]-1-buten-3-ynyl]phenyl]methylene]-1,4-pentadiene-1,5-diyli]bis- (SC1) (CA INDEX NAME)



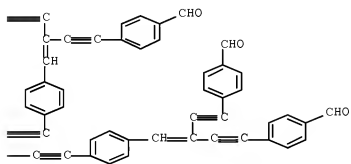
CAS Registry Number
754233-38-6 CML/09

Chemical or Trade Name
Benzaldehyde, 4,4'-bis[3-[[4-(4-(4-formylphenyl))-2-[(4-formylphenyl)ethynyl]-1-buten-3-ynyl]phenyl]-2-[[4-(4-(4-formylphenyl))-2-[(4-formylphenyl)ethynyl]-1-buten-3-ynyl]phenyl]methylene]-1,4-pentadiene-1,5-diyli]bis[4,1-phenylene]bis- (SC1) (CA INDEX NAME)

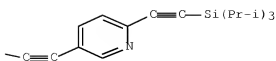
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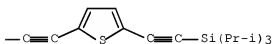
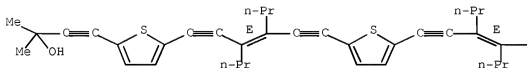


08 CITING REF COUNT: 19 THERE ARE 19 CARLIS RECORDS THAT CITE THIS RECORD (17 CITINGS)



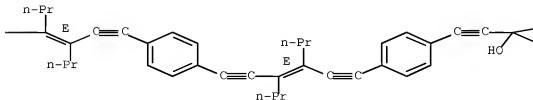
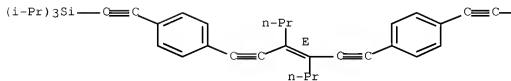
CAS Registry Number
740520-60-0 CAS109

Chemical or Trade Name
3-Butyn-2-ol, 2-methyl-4-[(5-[(3E)-3-propyl-4-[(5-[(3E)-3-propyl-4-[(5-[[tris(1-methylethyl)ethyl]ethyl]-2-thienyl)ethyl]-3-hepten-1-yn-1-yl]-2-thienyl)ethyl]-3-hepten-1-yn-1-yl]-2-butenyl]- (CA 38056 NAME)



CAS Registry Number
740520-63-3 CAS109

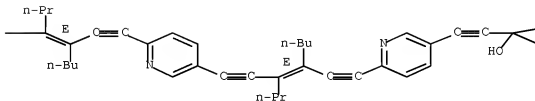
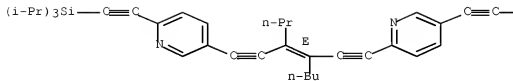
Chemical or Trade Name
3-Butyn-2-ol, 2-methyl-4-[(5-[(3E)-3-propyl-4-[(5-[(3E)-3-propyl-4-[(5-[[tris(1-methylethyl)ethyl]ethyl)-2-thienyl)ethyl]-3-hepten-1-yn-1-yl]-2-thienyl)ethyl]-3-hepten-1-yn-1-yl]-2-butenyl]- (CA 38056 NAME)





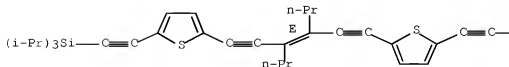
CAS Registry Number
740810-66-6 CAP100

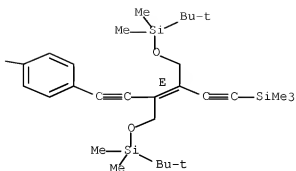
Chemical or Trade Name
3-Butyn-2-ol, 4-[6-[(3E)-3-butyl-4-[2-[6-[(3E)-3-butyl-4-[2-[6-[(3E)-3-butyl-4-[2-[6-[[tris[2-methylethyl]silyl]ethynyl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]ethynyl]-3-hepten-1-yn-1-yl]-3-pyridinyl]ethynyl]-2-methyl-
(CA INDEX
N082)



CAS Registry Number
740810-69-9 CAPLUS

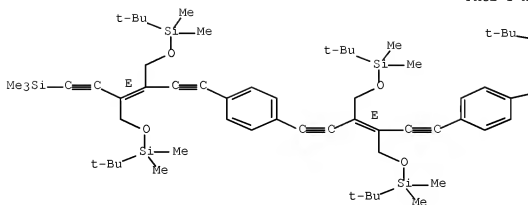
Chemical or Trade Name
3-Butyn-2-ol, 4-[5-[(3E)-4-[2-[5-[(3E)-5-ethyl-4-[2-[5-[(3E)-5-ethyl-3-propyl-4-[2-[5-[2-[tris[3-methyl-1-ethynyl-2-thienyl]ethynyl]-3-penten-1-yn-1-yl]-2-thienyl]ethynyl]-3-propyl-3-penten-1-yn-1-yl]-2-thienyl]ethynyl]-3-propyl-3-hepten-1-yn-1-yl]-2-thienyl]-2-methyl- (CA INDEX NAME)

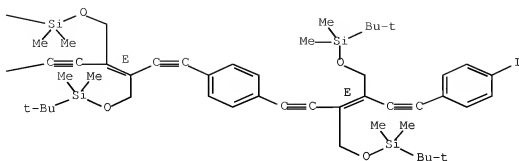




CAS Registry Number
554459-64-2 CAPLOS

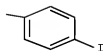
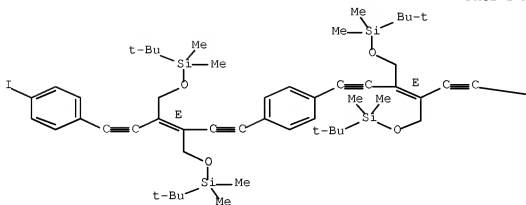
Chemical or Trade Name
4,9-Dioxan-3,10-dithiolane-6-one, 6-[[[6-(3E)-6-[6-(3E)-3,6-bis[[[1,3-dimethyl-1-oxo-4-oxaphenyl]ethynyl]oxy]methyl]oxy]methyl]oxy]methyl]-14-oxophenyl]-3-hexene-1,5-diynyl]phenyl]ethynyl]-7-[[[6-(3E)-6-[6-(3E)-3,6-bis[[[1,3-dimethyl-1-oxo-4-oxaphenyl]ethynyl]oxy]methyl]oxy]methyl]-14-oxophenyl]-3-hexene-1,5-diynyl]phenyl]ethynyl]-1,2,2,3,3,10,10,11,11-octamethyl-, (6E)- (PCI) (CA INDEX NAME)





CAS Registry Number
704914-20-0 (CAPLUS)

Chemical or Trade Name
4,8-Dioxaspiro[3.13]octadeca-6-ene, 6,6'-[1,4-phenylene]-(2,3-ethynyl)bis[7-[(4-iodophenyl)ethynyl]-2,2,3,3,10,10,11,11-octamethyl-, (4S,4'S)- (S,S') (Sb, (SbSb, SObSb))



08 CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD
(8 CITINGS)

18 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2016 ACS on GSN
Accession Number
2003027389 CAPLUS [E6-301](#)
Document Number
140.99735

Title
Synthesis and reactivity of dinuclear rhodium complexes with Rh(CCHR) and Rh(C-CRR) units as building blocks
Author/Inventor

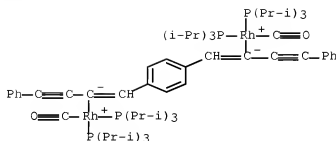
Calteja-Gaspar, Berit, Laubender, Matthias, Werner, Helmut
 Patent Assignee/Corporate Source
 Institut fuer Anorganische Chemie der Universität Würzburg, Würzburg, D-97074, Germany
 Source
 Journal of Organometallic Chemistry (2003), 684(1-2), 144-152 CODEN: JORCAL, ISSN: 0022-328X
 Document Type
 Journal
 Language
 English
 Abstract

The reaction of $[\text{Rh}(\eta^2\text{-O}2\text{S}(\text{OCF}_3)(\text{PPh}_3)_2)]$ (1) with ethynylferrocene in the presence of KF affords the substituted vinylidene complex $\text{trans}[\text{Rh}(\text{C}\equiv\text{CH}(\text{C}_6\text{H}_5)\text{Fe}(\text{C}_6\text{H}_5))(\text{PPh}_3)_2]$ (2) which upon treatment with the butadiene derivative $\text{Ph}_2\text{Si}(\text{C}\equiv\text{C})\text{Si}(\text{OCF}_3)_2$ produces the chain-like compound $\text{trans}[\mu\text{-C}\equiv\text{C}(\text{Si}(\text{OCF}_3)_2)\text{C}(\text{CH}_2\text{C}(\text{CH}_3)_2\text{C}(\text{CH}_3)_2)]_n$ (7). The triflate complex 1 reacts with 1,4- $\text{C}_6\text{H}_4(\text{C}\equiv\text{C})_2$ to give the dicationic compound $\text{trans}[\mu\text{-}1,4\text{-C}_6\text{H}_4(\text{CH}(\text{C}\equiv\text{C}))_2(\text{PPh}_3)_2(\text{PPh}_3)_2]$ (3) which in the presence of KF undergoes a ligand exchange to give the corresponding difluoro derivative $\text{trans}[\mu\text{-}1,4\text{-C}_6\text{H}_4(\text{CH}(\text{C}\equiv\text{C}))_2(\text{PPh}_3)_2(\text{PPh}_3)_2]$ (4). From 4 and an RC(=O)R' compound $\text{C}_6\text{H}_4\text{R}(\text{R}'=\text{CH}_3, \text{C}_6\text{H}_5)$ the complexes $\text{trans}[\mu\text{-}1,4\text{-C}_6\text{H}_4(\text{CH}(\text{C}\equiv\text{C}))_2(\text{PPh}_3)_2(\text{PPh}_3)_2]$ (5) and (6), in which a C_6H_4 unit bridges two alkyne/alkenyl/alkenyl/alkenyl fragments, are obtained. Both 6 and 7 react with CO by migratory insertion of the vinylidene units into the alkyne/metal bonds to afford the dicarbonyl complexes $\text{trans}[\mu\text{-}1,4\text{-C}_6\text{H}_4(\text{CH}(\text{C}\equiv\text{C}))_2(\text{PPh}_3)_2(\text{PPh}_3)_2]$ (8) and $\text{trans}[\mu\text{-}1,4\text{-C}_6\text{H}_4(\text{CH}(\text{C}\equiv\text{C}))_2(\text{PPh}_3)_2(\text{PPh}_3)_2]$ (9), in which an unusual C_8 or $\text{C}_6\text{C}_8\text{H}_4\text{C}_4$ chain bridges the two rhodium centers. The reactions of $[\text{Rh}(\text{C}_6\text{H}_5)_3(\text{PPh}_3)_2]$ (10) with the functionalized diynes 1,1',4,4'- $\text{C}_6\text{H}_4(\text{CH}(\text{C}\equiv\text{C}))_2$ and 1,4'- $\text{C}_6\text{H}_4(\text{C}\equiv\text{C})_2$ lead, via the corresponding dyne metal species (11) and (12) as intermediates, to the formation of the bis(vinylidene) complexes (13) and (14), the latter of which reacts with acids ABO_3 by elimination of water to give the novel phenylene bridged bis(vinylidene) compound $[\mu\text{-}1,4\text{-C}_6\text{H}_4(\text{C}\equiv\text{C})_2(\text{PPh}_3)_2(\text{PPh}_3)_2]$ (15) in 80% yield.

Hit Structure

CAS Registry Number
 679010-90-9 CAPLUS

Chemical or Trade Name
 Rhodium, dicationic [mu-1,4-phenylenebis[(1Z)-3-(phenylethynyl)-2,5-ethenediyl]]tetrakis[tris(1-methylethyl)phosphine]di-, stereoisomer (9CI)
 (CA INDEX NAME)



GO CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

LB ANSWER 6 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
 2003 649867 CAPLUS Fulltext
 Document Number
 159 305866

Title
 Synthesis and photophysical studies of bi-enedynes as tunable fluorophores

Author/Inventor
 Hwang, Qi Tai, Son, Hyung Su, Ku, Ja Kang, Kim, Byung Hyun

Patent Assignee/Corporate Source
 National Research Laboratory, Center for Integrated Molecular Systems, Department of Chemistry, Division of Molecular and Life Sciences, Pohang University of Science and Technology, Pohang, 780-784, S. Korea

Source
 Journal of the American Chemical Society (2003), 125(37), 11241-11248 CODEN: JACSAT, ISSN: 0002-7063

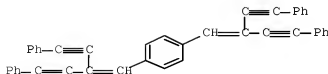
Document Type
 Journal
 Language
 English
 Abstract

We have synthesized a family of bi-enedynes by two complementary Pd/Cu-catalyzed Sonogashira cross-coupling methods. One is a modified Sonogashira reaction between a TMS-protected trialkyne and various aromatic bromides to afford bi-enedynes bearing different peripheral aryl units. The other, the reaction of functional 1,1-dibromo-1-alkynes with phenylacetylene, afforded a series of bi-enedynes bearing various core aryl groups. These chemical modifications to the core and periphery of bi-enedynes induce dramatic changes in absorption and emission spectra. Bi-enedynes with peripheral aryl groups show a large Stokes shift of about 50-110 nm when compared to the less-conjugated TMS-protected bi-enedynes. Absorptions and emissions of other bi-enedynes were red-shifted relative to those of (5-phenyl(2-phenylvinyl)-1-dibenz-3-ynyl)benzene. Substantial increases in fluorescence quantum yields are observed as a result of extending the π -conjugation. The emission wavelength of the bi-enedynes was tailored from red-orange, suggesting that the color of emission can be tunable by modification of the core and/or peripheral units.

Hit Structure

CAS Registry Number
 360549-90-9 CAPLUS

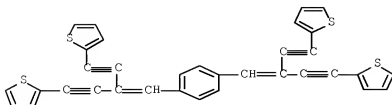
Chemical or Trade Name
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CAS Registry Number
 360549-90-2 CAPLUS

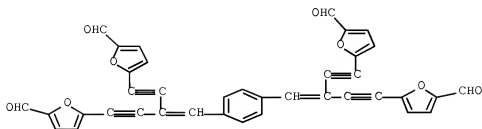
Chemical or Trade Name

Thiophene, 2,2'-(1,4-phenylenebis[3-(2-thienylethynyl)-3-buten-1-yn-4,1-diyl]]bis- (9CI) (CA INDEX NAME)



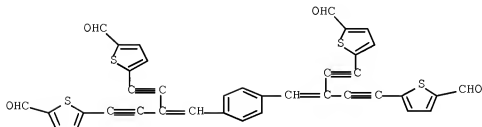
CAS Registry Number
36549-91-3 CML105

Chemical or Trade Name
2-Furancarboxaldehyde, 5,5'-(1,4-phenylenebis[3-(5-formyl-2-furanylethynyl)-3-buten-1-yn-4,1-diyl]]bis- (9CI) (CA INDEX NAME)



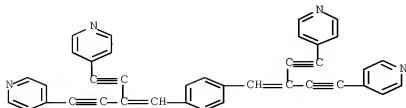
CAS Registry Number
36549-92-4 CML105

Chemical or Trade Name
2-Thiophene-carboxaldehyde, 5,5'-(1,4-phenylenebis[3-(5-formyl-2-thienylethynyl)-3-buten-1-yn-4,1-diyl]]bis- (9CI) (CA INDEX NAME)



CAS Registry Number
36549-93-5 CML105

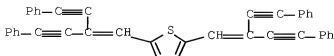
Chemical or Trade Name
Pyridine, 4,4'-(1,4-phenylenebis[3-(4-pyridylethynyl)-3-buten-1-yn-4,1-diyl]]bis- (9CI) (CA INDEX NAME)



CAS Registry Number

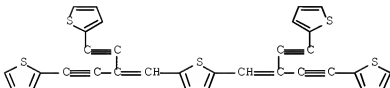
360543-94-6 CXP109

Chemical or Trade Name
Thiophene, 2,5-bis[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



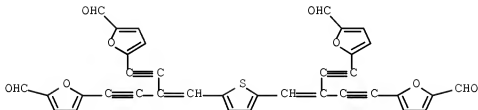
CAS Registry Number
360543-95-7 CXP105

Chemical or Trade Name
Thiophene, 2,5-bis[4-(2-thienyl)-2-(2-thienylethynyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



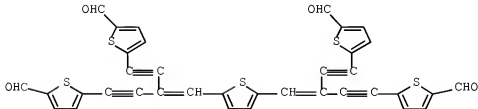
CAS Registry Number
360543-96-8 CXP103

Chemical or Trade Name
2-Furanacetaldehyde, 5,5'-[2,5-thiophenediyl]bis[3-[(5-formyl-2-furyl)ethynyl]-3-buten-1-yn-4,1-diyl]bis- (PCT) (CA INDEX NAME)



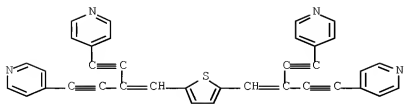
CAS Registry Number
360543-97-9 CXP101

Chemical or Trade Name
2-Thiopheneacetaldehyde, 5,5'-[2,5-thiophenediyl]bis[3-[(5-formyl-2-thienylethynyl)-3-buten-1-yn-4,1-diyl]bis- (PCT) (CA INDEX NAME)



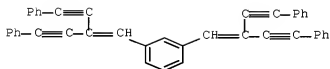
CAS Registry Number
360543-98-0 CXP105

Chemical or Trade Name
Pyridine, 4,4'-[2,5-thiophenediyl]bis[3-(6-pyridanylethynyl)-3-buten-1-yn-4,1-diyl]bis- (PCT) (CA INDEX NAME)



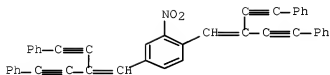
CAS Registry Number
610293-06-2 CAS105

Chemical or Trade Name
Benzene, 1,3-bis[4-(pyridin-2-yl)-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



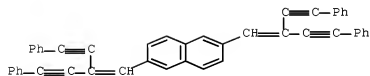
CAS Registry Number
610293-08-4 CAS105

Chemical or Trade Name
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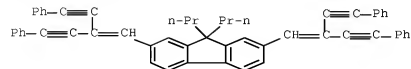
CAS Registry Number
610293-09-5 CAS105

Chemical or Trade Name
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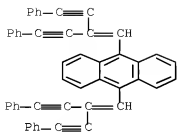
CAS Registry Number
610293-10-8 CAS105

Chemical or Trade Name
9H-Fluorene, 2,7-bis[4-(2-phenylethynyl)-1-buten-3-yn-1-yl]-9,9-dipropyl- (CA INDEX NAME)



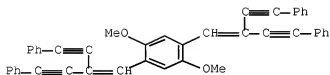
CAS Registry Number
610293-11-9 CAS105

Chemical or Trade Name
Anthracene, 9,10-bis[4-(2-phenylethynyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



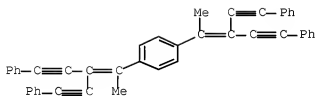
CAS Registry Number
610293-12-0 CAPILOS

Chemical or Trade Name
Benzene, 3,4-dimethoxy-2,5-bis[6-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]-
(CA 380624-3086)



CAS Registry Number
610293-13-1 CAPILOS

Chemical or Trade Name
Benzene, 3,4-bis[2-methyl-4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]-
(CA 380624-3086)



ON CITING REF COUNT: 49 THERE ARE 49 CASLIS RECORDS THAT CITE THIS
RECORD (49 CITINGS)

Accession Number

2003-02-0486 CAPLUS [Fid-10](#)

Document Number

139.190012

Title

Synthesis of Highly Fluorescent Y-Enyne Dendrimers with Four and Six Arms

Author/Inventor

Kadish, Blal R.; Wei, Brigitte; Wang, Fei; Calaneca, Otilia; Chen, L. C.; Neckers, Douglas C.

Patent Assignee/Corporate Source

Center for Photochemical Sciences, Bowling Green State University, Bowling Green, OH, 43403, USA

Source

Journal of Organic Chemistry (2003), 68 (13), 5377-5385 CODEN JOCEAH, ISSN 0022-0263

Document Type

Journal

Language

English

Abstract

A first generation of dendritic Y-enynes with extended flexible chains was synthesized using Sonogashira coupling. Dendrimers 9 and 10 are highly fluorescent in the solid state and in solution.

HR Structure

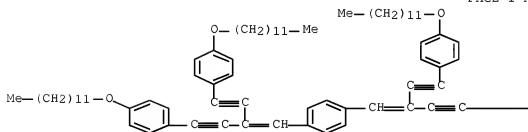
CAS Registry Number

569670-22-0 CAPLUS

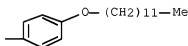
Chemical or Trade Name

Benzene, 3,4-bis[4-(4-(dodecyloxy)phenyl)-2-[[4-(dodecyloxy)phenyl]ethynyl]-1-buten-3-ynyl]- (DCE) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

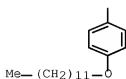
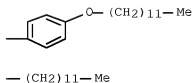
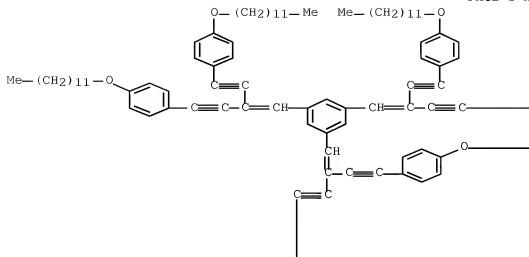


CAS Registry Number

569670-23-1 CAPLUS

Chemical or Trade Name

Benzene, 1,3,5-tris[4-(4-(dodecyloxy)phenyl)-2-[[4-(dodecyloxy)phenyl]ethynyl]-1-buten-3-ynyl]- (DCE) (CA INDEX NAME)



08 CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

18 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2003 234281 CAPLUS F46361

Document Number

139 88005

Title

Acetylenic scaffolding on solid support Poly(biacetylene)-derived oligomers by Sonogashira and Cadet-Chodkiewicz-type cross-coupling reactions

Author/Inventor

Uesch, Nils F.; Diederich, Francois

Patent Assignee/Corporate Source

Laboratorium für Organische Chemie, ETH-Henggerberg, HCI, Zurich, CH-8093, Switz

Source

Organic & Biomolecular Chemistry (2003), 1(7), 237-239 CODEN OBCRAK, ISSN 1477-0508

Document Type

Journal

Language

English

Abstract

Synthesis of poly(biacetylene)-derived oligomers by Pd(0)-catalyzed Sonogashira and Cadet-Chodkiewicz-type cross-coupling reactions on solid support is reported. Oligo(phenylene triacetylene)s, e.g., [4-(CH₃CO₂H)spbond-CCR CHC spbond-CyEAd] (R = CH₂CH₂CH₂CH₂, n = 1, 2, 3, 4) members of a new class of linearly π -conjugated oligomers with all-C backbones, feature very high fluorescence intensities.

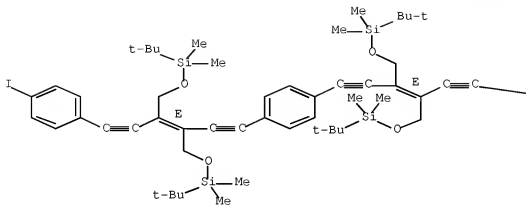
Hit Structure

CAS Registry Number
554459-43-1 CAS/US

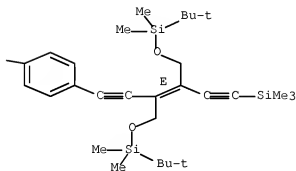
Chemical or Trade Name

4,9-Dioxo-3,10-dimethyladeca-6-ene, 6-([4-[(3E)-6-[4-[(3E)-3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-6-(4-iodophenyl)-3-hexeno-1,5-dienyl]phenyl]-3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-3-hexeno-1,5-dienyl]phenyl]ethynyl)-2,8,9,10,11,12-octamethyl-7-[[trimethylsilyl]ethynyl]-, (8E)- (9CI) (CA 1906X N006)

PAGE 1-A



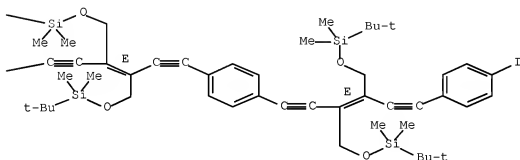
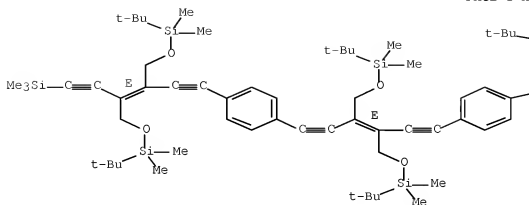
PAGE 1-B



CAS Registry Number
554459-44-2 CAS/US

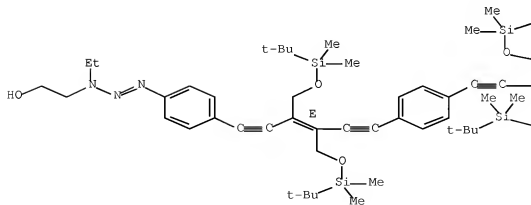
Chemical or Trade Name

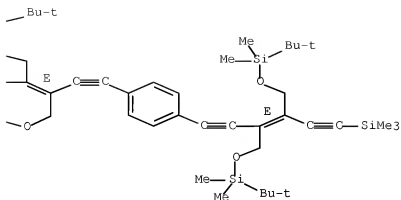
4,9-Dioxo-3,10-dimethyladeca-6-ene, 6-([4-[(3E)-6-[4-[(3E)-3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-6-(4-iodophenyl)-3-hexeno-1,5-dienyl]phenyl]-3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-3-hexeno-1,5-dienyl]phenyl]ethynyl)-2,8,9,10,11,12-octamethyl-, (8E)- (9CI) (CA 1906X N006)



CAS Registry Number
554459-12-2 CAFL/05

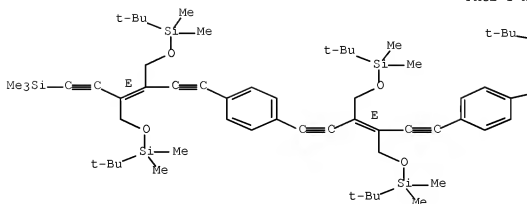
Chemical or Trade Name
Ethanol, 2-[3-{4-[(3E)-6-[4-[(3E)-3,4-bis[[[1,1-dimethyl-2-ethoxyethyl]oxy]methyl]-6-(trimethylsilyl)-3-hexeno-1,5-diy-1-yl]phenyl]-3,4-bis[[[1,1-dimethyl-2-ethoxyethyl]oxy]methyl]-3-hexeno-1,5-diy-1-yl]phenyl]-3,4-bis[[[1,1-dimethyl-2-ethoxyethyl]oxy]methyl]-3-hexeno-1,5-diy-1-yl]phenyl]-1-ethyl-2-triazene-1-yl)- (CA INDEX NAME)

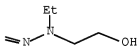
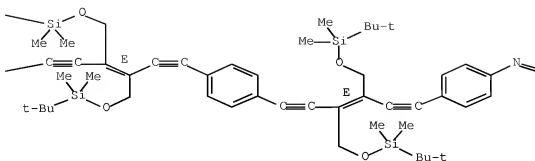




CAS Registry Number
554459-13-3 CAS105

Chemical or Trade Name
Ethanol, 2-[3-[6-[(3E)-6-[[4-[(3E)-6-[[4-[(3E)-3,6-bis[[[(1,2-dimethyl[ethy]l]dimethyl[ethy]oxy]methyl]-5-(tert-butyl[ethy]l]-2-buten-1,5-diyne-1-yl]phenyl]-3,4-bis[[[(1,2-dimethyl[ethy]l]dimethyl[ethy]oxy]methyl]-3-buten-1,5-diyne-1-yl]phenyl]-3,4-bis[[[(1,2-dimethyl[ethy]l]dimethyl[ethy]oxy]methyl]-3-buten-1,5-diyne-1-yl]phenyl]-3,6-bis[[[(2,4-dimethyl[ethy]l]dimethyl[ethy]oxy]methyl]-3-buten-1,5-diyne-1-yl]phenyl]-3-ethoxy-2-tetrasen-1-yl]- (CA 33282, NAME)





CS CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

LB ANSWER 9 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number

2001714296 CAPLUS Full-text

[illegible]

Title

Synthesis and spectroscopic studies of expanded planar dehydrobenzo[*n*]annulenes containing one or two isolated alkene units

Author/Inventor:

Wan, W. Brad, Chiechi, Ryan C., Wesley, Timothy J. R., Haley, Michael M.

Assignee/Corporate Source

Department of Chemistry and the Materials Science Institute, University of Oregon, Eugene, OR, 97403-1253, USA

Source

European Journal of Organic Chemistry (2001), (18), 3485-3490 CODEN: EJOCFK; ISSN: 1434-193X

Document Type

Jo

Language

English

Abstract

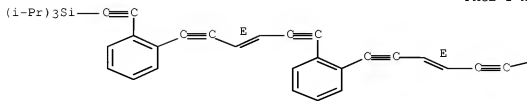
Dehydrobenzoannulene derivs. containing isolated alkene linkages, e.g., **1**, were synthesized by combining an in situ Pd/Cu-mediated cross-coupling with an intramol. cyclization strategy. ¹H NMR studies of these macrocycles and comparison with related systems verify that highly alkynylated dehydrobenzoannulenes possess weak induced ring currents, indicative of aromatic (4n+2 π systems) and antiarom. (4n π systems) behavior, in spite of their large size and extensive benzenoidity.

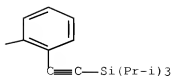
Hfr Structure

CAS Registry Number
383404-38-9 CAPL/25

Chemical or Trade Name

Silane, [1,2-phenylenebis[(3E)-3-hexene-1,5-diyne-6,3-diyl-2,1-phenylene-2,1-ethynediyl]]bis[tris(2-methylethyl)- (SCI) (CA INDEX NAME)





68 CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

18 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 2001519766 CAPLUS [Fulltext](#)

Document Number 158248752

Title Novel fluorophores: efficient synthesis and photophysical study

Author/Inventor

Hwang, Gil Tae, Son, Hyung Su, Ku, Ja Kang, Kim, Byoung Hyeon

Patent Assignee/Corporate Source

Center for Integrated Molecular Systems Department of Chemistry Division of Molecular Life Science, Pohang University of Science and Technology, Pohang, 790-784, S. Korea

Source Organic Letters (2001), 31(6), 2469-2471 CODEN: ORLEF7; ISSN: 1523-7060

Document Type

Journal

Language

English

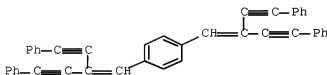
Abstract

We have synthesized novel tetraacetylenic fluorophores by using Sonogashira reactions of 1,4-bis(bromovinyl)benzene and 2,5-bis(bromovinyl)thiophene with various aromatic bromides. The emission maxima of these fluorophores vary from the indigo blue to the reddish-orange region, depending on the structures of the aromatic nuclei and peripheral moieties.

Hit Structure

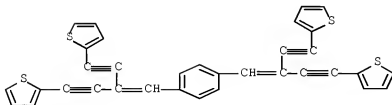
CAS Registry Number 360549-89-9 CAPLUS

Chemical or Trade Name Benzene, 3,4-bis[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]- (CA INDEX NAME)



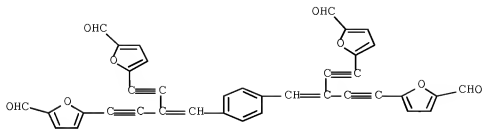
CAS Registry Number 360549-90-2 CAPLUS

Chemical or Trade Name Thiophene, 2,2'-(1,4-phenylenebis[3-(2-thienylethynyl)-3-buten-3-yn-4,1-diyl])bis- (SC1) (CA INDEX NAME)



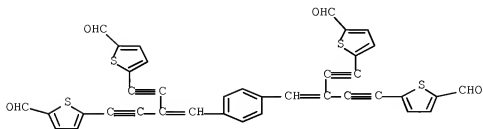
CAS Registry Number 360549-91-3 CAPLUS

Chemical or Trade Name 2-Furancarboxaldehyde, 5,5'-(1,4-phenylenebis[5-(4-ethynyl-2-furanyl)ethynyl]-3-buten-3-yn-4,1-diyl])bis- (SC1) (CA INDEX NAME)



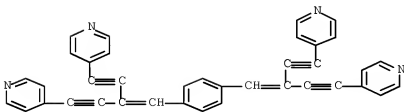
CAS Registry Number
360543-92-4 CASL/OS

Chemical or Trade Name
2-Thiopheneacetaldehyde, 5,5'-[1,4-phenylenebis[3-[(5-formyl-2-thienyl)ethynyl]-3-buten-1-yn-4,1-diyl]]bis- (DCT) (CA INDEX NAME)



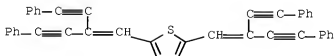
CAS Registry Number
360543-93-5 CASL/OS

Chemical or Trade Name
Pyridine, 4,4'-[1,4-phenylenebis[3-[(4-pyridyl)ethynyl]-3-buten-1-yn-4,2-diyl]]bis- (PCE) (CA INDEX NAME)



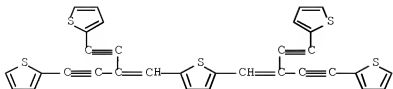
CAS Registry Number
360543-94-6 CASL/OS

Chemical or Trade Name
Thiophene, 2,5-bis[4-phenyl-2-(2-phenylethynyl)-1-buten-3-yn-1-yl]- (Ph) (CA INDEX NAME)



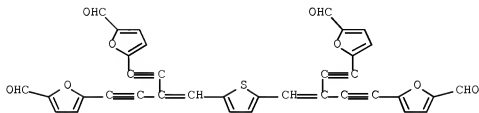
CAS Registry Number
360543-93-7 CASL/OS

Chemical or Trade Name
Thiophene, 2,5-bis[4-phenyl-2-(2-thienyl)ethynyl]-1-buten-3-yn-1-yl]- (CA INDEX NAME)



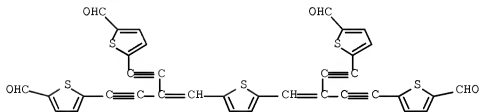
CAS Registry Number
360543-96-0 CAPLUS

Chemical or Trade Name
2-Furancarboxaldehyde, 5,5'-[2,5-thiophenediylbis[3-[(5-formyl-2-furanyl)ethynyl]-3-buten-1-yn-4,1-diyl]]bis- (9C1) (CA INDEX NAME)



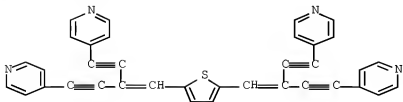
CAS Registry Number
360543-97-9 CAPLUS

Chemical or Trade Name
2-Thiophenecarboxaldehyde, 5,5'-[2,5-thiophenediylbis[3-[(5-formyl-2-thienyl)ethynyl]-3-buten-1-yn-4,1-diyl]]bis- (9C1) (CA INDEX NAME)



CAS Registry Number
360543-98-0 CAPLUS

Chemical or Trade Name
Pyridine, 4,4'-[2,3-thiophenediylbis[3-[(4-pyridinylethynyl)-3-buten-1-yn-4,1-diyl]]bis- (9C1) (CA INDEX NAME)



QS CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)

18 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
199629533 CAPLUS [Full Text](#)

Document Number
124260436

Title
Synthesis and reactions of new ethynyl-substituted 1,6-methano[10]annulenes

Author/Inventor
Bryant-Friedrich, Amanda; Nieldem, Richard
Patent Assignee/Corporate Source
Pharm-Chem Ind, Univ. Heidelberg, Heidelberg, D-69120, Germany

Source
Synthesis (1996), (12), 1506-10 CODEN SYNTBF, ISSN 0039-7881

Document Type
Journal

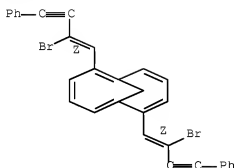
Language
English

Abstract
Chemo-specific Pd(PPh₃)₄ catalyzed coupling of an acetylene to general dibromo-substituted alkenes yielded enynes, which upon dehydrohalogenation formed butadienyl substituted 1,6-methano[10]annulenes. [R = (C≡C bond)C(R₃), R₁ = R₂ = H, R₃ = Ph; OMe₃, R₁ = H, R = R₂ = (C≡C bond)C(2Ph), R = R₁ = (C≡C bond)C(2Ph), R₂ = H]

Hit Structure

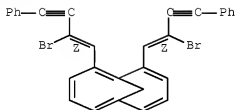
CAS Registry Number
175430-09-0 CASREG

Chemical or Trade Name
Bicyclo[4.4.1]undecan-1,3,5,7,9-pentayne,
2,7-bis[2-bromo-4-phenyl-1-buten-3-ynyl]-, (1Z,2Z)- (9CI) (CA INDEX NAME)



CAS Registry Number
175430-11-2 CASREG

Chemical or Trade Name
Bicyclo[4.4.1]undecan-1,3,5,7,9-pentayne,
2,10-bis[2-bromo-4-phenyl-1-buten-3-ynyl]-, (1Z,2Z)- (9CI) (CA INDEX NAME)



18 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1996192448 CAPLUS [Full Text](#)

Document Number
120192448

Title
Synthesis of a series of conjugated enyne polythiophenes

Author/Inventor
Kane, James J.; Gao, Feng; Reinhardt, Bruce A.; Evers, Robert C.
Patent Assignee/Corporate Source
Chem. Dep., Wright State Univ., Dayton, OH 45435-0001, USA

Source
Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 33(1), 1064-5 CODEN APCPAY, ISSN 0032-3994

Document Type
Journal

Language
English

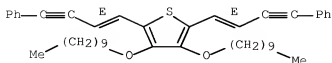
Abstract
The 11th polymers were prepared via polymerization of 3,4-dicyclohexyl-2,5-bis[2-bromoethynyl]thiophene and aromatic dialkyl enynes. Thermal and viscosity of the resulting thiophene-containing polyacetylenes are discussed.

Hit Structure

CAS Registry Number
153846-90-3 CASREG

Chemical or Trade Name

Thiophene, 3,4-bis(4-phenyloxy)-2,5-bis(4-phenyl-1-buten-3-ynyl)-, (E,E)-
(9CI) (CA INDEX NAME)



06 CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITE(S))

LB ANSWER 13 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 198429114 CAPLUS Fulltext

Document Number 10028114

Title

On-Enyne aromatic and aromatic heterocyclic polymers

Author/Inventor Reinhart, Bruce

Patent Assignee/Corporate Source United States Dept. of the Air Force, USA

Source U. S. Pat. Appl., 4 pp. Avail. NTIS Order No. PAT-APPL-6-399 661. CODEN: XAXXAV

Document Type Patent

Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 399661	A0	19630324	US 1962-399661	19620719
US 4417039	A	19631122		

Abstract

Aromatic and aromatic heterocyclic enyne polymers having relatively low glass temps. for fabrication are prepared by treating 1,4-bis(4-bromovinyl)benzene (b) [86248-70-8] with a diacetylenic compound. The polymers exhibit high glass temps. and low solvent susceptibilities after heat treatment. Thus, a suspension of 40 g p-phenylenediacrylic acid [16323-43-6] in 340 g Bz was stirred for 3 h to give 5,11'-p-phenylenedi(bis(4-bromovinyl)acetic acid) (II) [86248-71-9]. A mixture of 21 g II and 70.0 g Me₂CO in 500 mL acetone was refluxed for 72 h to give I. A mixture of 0.5 g I and 0.765 g 4,4'-bis(2-ethoxyphenyl)disulfone [83770-40-1] was dissolved in a solution of 3 mL Et₃N and 3 mL N,N-dimethylacetamide (IIb). A mixture of 0.025 g CuI and 0.05 g (Ph₃P)₄ClO₄ was added. The mixture was stirred at room temperature for 70 h. A total 10 mL III was added to give a polymer having glass temperature 143°. The polymer [86249-72-9] tested at 250° for 6 h had glass temperature >375° and was inert in solvents.

HR Structure

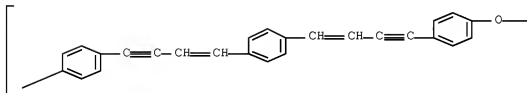
CAS Registry Number

86249-70-1 CAPLUS

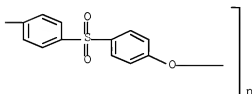
Chemical or Trade Name

Poly[oxa-1,4-phenylene-sulfonfyl-3,4-phenyleneoxa-1,4-phenylene-3-buten-5-yne-1,4-diyl-1,4-phenylene-1-buten-3-yne-3,4-diyl-2,3-phenylene], (2,2')-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

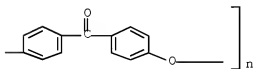
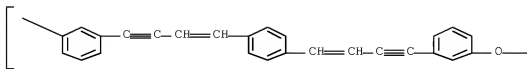


CAS Registry Number

86249-71-2 CAPLUS

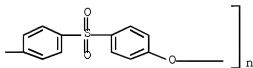
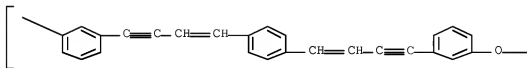
Chemical or Trade Name

Poly[oxa-1,4-phenylene-sulfonfyl-3,4-phenyleneoxa-1,4-phenylene-3-buten-5-yne-1,4-diyl-1,4-phenylene-1-buten-3-yne-3,4-diyl-2,3-phenylene], (2,2')-(9CI) (CA INDEX NAME)



CAS Registry Number
88249-12-3 CAPLUS

Chemical or Trade Name
Poly[arylether-1,4-phenyleneoxy-1,4-phenyleneoxy-1,3-phenylene-3-buten-1-
yne-1,4-ethynyl-1,4-phenylene-3-buten-3-yne-1,4-ethynyl-1,3-phenylene], (R,R)-
(9CI) (CA INDEX NAME)



OF CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

LE ANSWER 14 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 1981173927 CAPLUS FullText

Document Number 84 173927

Title Reactions with phosphonates XXXX. New methods for the preparation of 1-bromoarylethers and aromatic and conjugated enynes
Author/Inventor Bestmann, Hans Juergen; Frey, Herbert

Patent Assignee/Corporate Source Inst. Org. Chem., Univ. Erlangen-Nuremberg, Erlangen, D-91050, Fed. Rep. Ger.

Source Liebigs Annalen der Chemie (1980), (12), 2061-71 CODEN LACHDL, ISSN 0170-2041

Document Type Journal

Language German

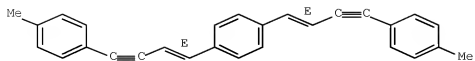
Abstract

Some of RCH CB2 (R = optionally substituted Ph, naphthyl, 9-anthryl, 2-thienyl, alkyl, cycloalkyl, MeCH OMe, MeCH CH, MeCH CHCH CH, MeCH CHCHCH OMe CH, allyl, 2-furyl, PhCH CH, PhCH OMe), prepared in 25-80% yields from RCHO, PhNH and CB4, were dehydroesterified with (PhCH2)2Mg/CH3OH to give 20-80% RC-Substituted CB (R = optionally substituted Ph, naphthyl, 9-anthryl, 2-thienyl, alkyl, cycloalkyl), which were treated with Ph3P/MeBr and R'CHO (R' = 4-O2NCH3, 9-anthryl, 3,4-CECH3, 3,4,5-(MeO)3CH2, piperonyl, isobutyl, 2-furyl, PhCHCH3) to give 20-70% RC-Substituted CBCH(R'). Adm. obtained were 25% I and 35% II.

HR Structure

CAS Registry Number
77235-83-3 CAPLUS

Chemical or Trade Name
Benzene, 1,4-bis[4-(4-methylphenyl)-3-buten-3-ynyl]-, (R,R)- (9CI) (CA
INDEX NAME)



68. CITING REF COUNT: 32 THERE ARE 32 CACHED RECORDS THAT CITE THIS RECORD (32 CITINGS)

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exact bonds :
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G1C=C,Cy,Ry
G2C=C,R,Si,Cy,Cy,Ry
G3C=C,O,S,N

Match level :
1<CLASS 2<CLASS 3<CLASS 4<CLASS 5<CLASS 6<CLASS 7<Atom 9<Atom 14<CLASS 15<Atom
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100 ON PROCESSED 52774 ITERATIONS 101 ANSWERS
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L12 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
3551356654 CAPLUS [Eulogis](#)
Document Number
135164303

Title
Fluorescent fingerprinting of molecular recognition landscapes

Author/Inventor

Auer, Manfred, Graf, Christine, La Clair, James J.

Patent Assignee/Corporate Source

Allegis Diseases Unit Fluorescence based HTS-Technology Program, Novartis Forschungsinstitut GmbH, Vienna, 1235, Austria

Source

Angewandte Chemie, International Edition (2001), 40(10), 1059-1092 CODEN ACIEF5, ISSN 1435-7851

Document Type

Journal

Language

English

Abstract

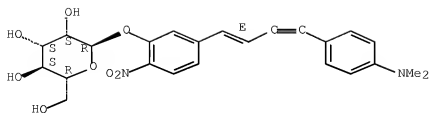
The combination of a non-rigid fluorescence probe (SENSE) and three-dimensional fluorescence spectroscopy provides an efficient means to differentiate subtle structural attributes resulting from mol. interactions. This method was able to distinguish low-affinity protein-carbohydrate interactions. The ease and tech. simplicity of this method suggest a practical means to increase the reliability of affinity matrices, and illustrate a potent tool for characterizing (in time/space) a wide range of host and chemical processes (e.g. drug screening, characterization of chemical purity, and resolution of mixtures). As shown here, it is not the affinity but the "fingerprint" of mol. recognition which is vital in selecting compounds for cellular and in vivo testing and for establishing structure-activity relationships for follow up bioinformatics, mol. modeling, and for rational drug design. Most importantly, this three-dimensional method provides a means to distinguish recognition events from stoichiometric effects.

HR Structure

CAS Registry Number
353521-92-3 CAPLUS

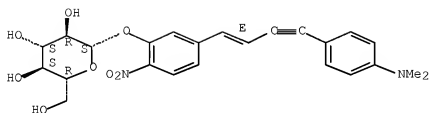
Chemical or Trade Name

a-D-Mannopyranoside, 5-[(1E)-6-[(4-(dimethylamino)phenyl)-1-buten-3-ynyl]-2-nitrophenyl] (3CI) (CA 2HDXX NAME)



CAS Registry Number
153957-40-1 CASUS

Chemical or Trade Name
6'-O-(4-dimethylaminophenyl)-2-[[1(2S)-4-[[4-(dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl] (3C1) (CA INDEX NAME)



00 CITING REF COUNT: 1 THERE ARE 1 CASUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L12 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2000 890415 CAPLUS Fulltext

Document Number
134252306

Title
Cross-coupling reactions in Cinchona alkaloid chemistry: aryl-substituted and dimeric quinine, quinine, as well as quancrine and quancidine derivatives

Author/Inventor
Fackelkopf, Jens, Brigg, Wilfried M., Hoffmann, H. Martin R.

Patent Assignee/Corporate Source
Department of Organic Chemistry, Universität Hannover, Hannover, D-30167, Germany

Source
Journal of the Chemical Society, Perkin Transactions 1 (2001), (1), 47-65 CODEN: JCSPCE; ISSN: 1472-7701

Document Type
Journal

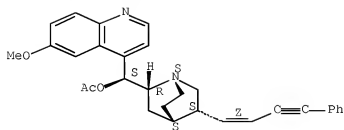
Language
English

Abstract
Cross-coupling reactions of modified Cinchonine alkaloids provide access to a wide variety of novel arylated and dimeric derivs. of quinine and quinine containing a single and double 1,2-amino alic functionality. Sonogashira and Heck reactions allow functionalization of ethynyl and 11-alkenyl precursors. The role of bystander functionality is investigated.

HR Structure

CAS Registry Number
331250-66-9 CASUS

Chemical or Trade Name
10,11-Dimethoxycinchonan-9-ol, 6'-methoxy-3-[[1(2)-6-phenyl-1-3-buten-3-ynyl]-, acetate (ester), (1R,9S)- (3C1) (CA INDEX NAME)



00 CITING REF COUNT: 23 THERE ARE 23 CASUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

L12 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
2000 764991 CAPLUS Fulltext

Document Number
133331792

Title: Fluorescent dye
 Author/Inventor: Latal, James J.
 Patent Assignee/Corporate Source: The Scripps Research Institute, USA
 Source: U.S., 36 pp., Cont.-in-part of U.S. Ser. No. 17,518. CODEN: USXXAM
 Document Type: Patent
 Language: English
 Patent Information:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6140041	A	2001031	US 1999-232356	19990115
US 5958473	A	19990926	US 1998-17519	19980202

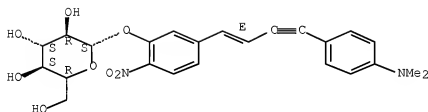
Abstract

Fluorescent dyes possess reactive linkers for conjugating to nucleic acids, carbohydrates and peptides. The conjugates fluoresce in the visible and UV spectrum and have an excellent solvochromatic response as compared to other fluorescence or chromatic labels. The conjugates are stable but also have medium sensitivity. The fluorescent dyes have little triplet state formation and are not photoreactive, making them an excellent substance for biological investigations. Uses for the dyes include protein labeling, DNA labeling, single-mol. spectroscopy and fluorescence. A synthesis of the dyes is disclosed. Methods of use include the detection of carbohydrate-protein interactions.

HR Structure

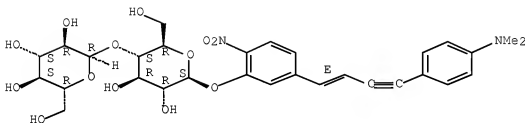
CAS Registry Number
 193551-48-1 CAPLUS

Chemical or Trade Name
 6-O- β -glucopyranoside, 5-[[1(2S)-4-[[4-(dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl (3CT) (CA INDEX NAME)



CAS Registry Number
 235793-03-0 CAPLUS

Chemical or Trade Name
 6-O- α -D-glucopyranoside, 5-[[1(2S)-4-[[4-(dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl (3CT) (CA INDEX NAME)



DB CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L12 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 1999 060775 CAPLUS E61363

Document Number 132247772

Title: Screening hydrolysis over two-phases
 Author/Inventor: Cotroneo, M.-G., La Dula, J. J.
 Patent Assignee/Corporate Source: Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA, USA

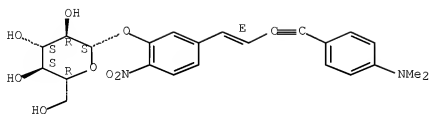
Source: Journal of Biotechnology (1999), 76(1), 33-41 CODEN: JBITD4; ISSN: 0168-1656
 Document Type: Journal
 Language: English
 Abstract:

A new assay is described that monitors hydrolysis with the concurrent transfer of a solvatochromic dye across an oil-water barrier. Through the appropriate design, this transfer is accompanied by a 106 gain in fluorescence. This response can be used to effectively screen hydrolytic activity at high-throughput. Using this method, myriads of alkaline phosphatases, glycosidases, as well as several common proteases can be visually detected within an hour through concentration over a 200:1 volumetric ratio of aqueous to organic phases. Development of a water-solubilizing protecting group extends this method. To screen a wide range of processes that undergo cleavage of a covalent bond.

HR Structure

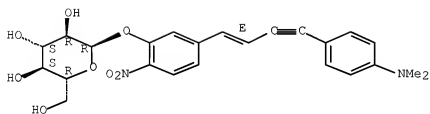
CAS Registry Number
153551-85-1 CAPLDS

Chemical or Trade Name
 β -D-glucopyranoside, 3-[(1R)-4-[4-(dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl (9CI) (CA INDEX NAME)



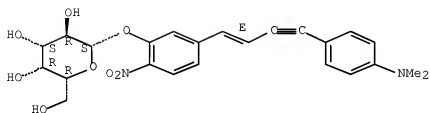
CAS Registry Number
262856-73-3 CAPLDS

Chemical or Trade Name
 α -D-glucopyranoside, 3-[(1E)-4-[4-(dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl (9CI) (CA INDEX NAME)



CAS Registry Number
262856-72-4 CAPLDS

Chemical or Trade Name
 β -D-galactopyranoside, 3-[(1E)-4-[4-(dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl (9CI) (CA INDEX NAME)



L12 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1999-093493 CAPLUS [File-View](#)
Document Number
131145690

Title
Fluorescent dyes and conjugates, their preparation and use

Author/Inventor
Luciat, James J.
Patent Assignee/Corporate Source
Novartis A-G, Switz., Novartis-Erfindungen Verwaltungsgesellschaft m.b.H., The Scripps Research Institute

Source
PCT Int. Appl., 66 pp. CODEN: P6XXD2

Document Type
Patent

Language
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9934931	A1	19990805	WO 1999-EP558	19990129
US 5954473	A	19990928	US 1998-17518	19980202
AU 9924253	A	19990816	AU 1999-24253	19990129

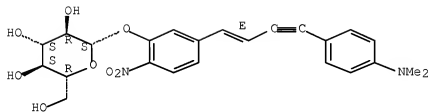
Abstract

The fluorescent dyes (R¹ = 4-R²-1-pyrenyl NR³R⁴, R², R³ = H, COCH₂CO₂R⁵, COR⁶, R⁴, R⁵ = C1-6 alkyl, R⁶ = C1-6 alkyl, succinimido, R⁷ = 1-imidazolyl, OCMe₂, n = 1-4) possess reactive linkers for conjugating to nucleic acids, carbohydrates and peptides. The conjugates fluoresce in the visible and UV spectrum and show a greater solvatochromic response than other fluorescence or chromatic labels. The conjugates are stable but also medium sensitive. The fluorescent dyes have little triplet state formation and are not photoreactive, making them suitable for bio-investigations. Uses for the dyes include protein labeling, DNA labeling, single mol. spectroscopy and fluorescence. Thus, 3-hydroxy-4-nitrobenzaldehyde was reduced to the corresponding benzyl alc., converted to the bromide and then to the d-Et phosphazene, and treated with 4-R¹C₆H₄C₆H₄CO₂CHO to give (R² = H).

HR Structure

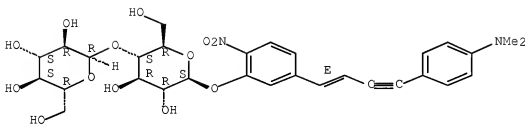
CAS Registry Number
193351-49-1 CAPLUS

Chemical or Trade Name
[3-(4-glucopyranosyloxy), 5-(1-[2S]-4-[4-(dimethylamino)phenyl]-1-buten-3-ynyl)-2-nitrophenyl] 4-O-α-D-glucopyranosyl- (3CI) (CA INDEX NAME)



CAS Registry Number
235793-00-0 CAPLUS

Chemical or Trade Name
[3-(4-glucopyranosyloxy), 5-(1-[2S]-4-[4-(dimethylamino)phenyl]-1-buten-3-ynyl)-2-nitrophenyl] 4-O-α-D-glucopyranosyl- (3CI) (CA INDEX NAME)



06 CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITING REF)

L12 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1999-12485 CAPLUS [File-View](#)
Document Number
130216546

Title
The photoconductive composition containing a 1,4-diphenyl-1-buty-3-one derivative as electron donor

Author/Inventor
Chung, Bong-Mi; Suk, Min-Chul; Shim, Sang-Chul
Patent Assignee/Corporate Source
Samsung Electron Devices Co., Ltd., S. Korea

Source
Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JPOXXF

Document Type
Patent

Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11049968	A	19990223	JP 1998-16083	19980669
JP 2057063	B2	19990531		
US 5989766	A	19991123	US 1998-93058	19980668
CN 1221132	A	19990630	CN 1998-116092	19980717

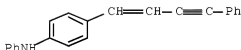
Abstract

Photoconductive composition for photoconductive film having excellent sensitivity and thermal deposition property comprises a 1,4-diphenyl-1-butyne-3-ene derivative as electron donor, an electron acceptor, a charge-transfer compound, binder, a surfactant, and a solvent. Thus, the interior panel of a cathode ray tube was coated with a conductive coating, then a photoconductive coating comprising 1,4-diphenyl-1-butyne-3-ene 25, 2,4-dinitroanisole 2.5, triphenylamine 25, polystyrene 250, silica 1000-1 and toluene 2500 g, followed by sintering green, red and blue fluorescent composition and IR heat melting to give a fluorescent tube.

Hit Structure

CAS Registry Number
220939-00-0 CASI/05

Chemical or Trade Name
Benzonitrile, N-phenyl-4-(4-phenyl-1-buten-3-yn-1-yl)- (CA INDEX NAME)



05 CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITING REF)

L12 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2010 ACS ON STN

Accession Number

1987 53876 CAPLUS FULLTEXT

Document Number

127-176629

Title

Selective Detection of the Carbohydrate-Bound State of Concanavalin A at the Single Molecule Level

Author/Inventor

La Orr, James J.

Patent Assignee/Corporate Source

Department of Molecular Biology, Scripps Research Institute, La Jolla, CA, 92037, USA

Source

Journal of the American Chemical Society (1997), 119(33), 7676-7684 CODEN: JACSAT; ESI: 0002-7063

Document Type

Journal

Language

English

Abstract

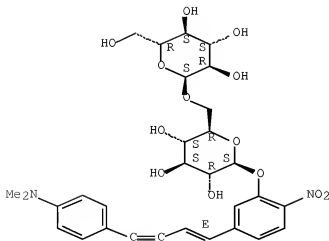
The labeling of molecules with charge-transfer dyes, such as dansyl chloride, is a powerful tool for examining the solvent shell of attached substances. This investigation describes the synthesis and application of a new charge transfer label based on [E-5-(4-CONHCH=CHCH2C6H4NHMe2-4 (NND). Unlike many commonly used fluorophores, the quantum yield of NND decreases over 4 orders of magnitude upon changing from nonpolar to polar environments. In addition, several dyes of NND undergo title photochromic and can be detected at the picomolar level in a confocal fluorescence correlation spectrometer. In conjunction with recent detection of single molecules in solution, this paper describes a method to discriminate between single free and carbohydrate-bound aggregates of the Jack Bean lectin, Con A. To this end, two NND dyes were constructed possessing an additional functional handle. One derivative, alkynyl (E)-5-(4-HOCH2C6H4CH=CHCH2C6H4NHMe2-4 (I), was efficiently attached to the 3'-anomeric position of glucopyranosides. Transients from single aggregates of this fluorophore were detected in solutions which contained both Con A and a maltotriose conjugate of I, and not the corresponding glucoside conjugate of I. This result is in agreement with the known affinity of Con A for α-glucopyranosides and not β-glucopyranosides. A full description of the synthesis of these dyes, their solvatochromatic properties, and the method used for single aggregate detection is provided.

Hit Structure

CAS Registry Number
193557-47-0 CASI/05

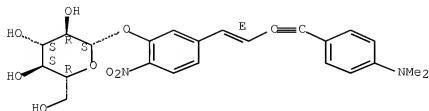
Chemical or Trade Name

β-D-Glucopyranoside, 3-[(1E)-4-[(4-dimethylamino)phenyl]-1-buten-3-ynyl]-2-nitrophenyl 6-O-α-D-glucopyranosyl- (1-3CI) (CA INDEX NAME)



CAS Registry Number
153351-85-1 CAPLUS

Chemical or Trade Name
p-O-diisopropyl amide, 3-[(1R)-4-[4-(dimethylamino)phenyl]-1-buten-3-
ynyl]-2-methylpropyl (9CI) (CA 210058 NIMS)



08 CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS
RECORD (19 CITINGS)

L12 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number
1997383287 CAPLUS FullText
Document Number
12710910

Title
Reactions of the phenyl-substituted five-membered titanacyclopentadiene - unusual coupling of a 1,4-disubstituted 1,3-butadiyne with two titanium atoms
Author/Inventor
Bakker, Vladimir V.; Peulecke, Norman; Baumann, Wolfgang; Sprenberg, Anke; Kempe, Rihel; Rosenthal, Uwe

Patent Assignee/Corporate Source
Arbeitsgruppe Komplexkatalyse of the Max-Planck-Gesellschaft at the University of Rostock, Buchdenstr. 5-6, D-18055, Rostock, Germany

Source
Journal of Organometallic Chemistry (1997), 536/3/7(1-3), 219-227 CODEN: JORCAI; ISSN: 0022-328X

Document Type
Journal

Language
English

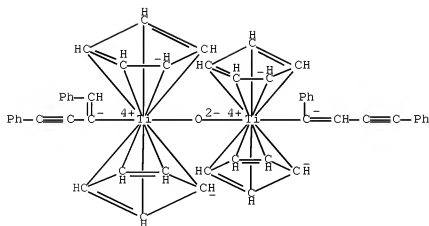
Abstract

The reaction of CpTi(η²-Me₃SiC≡CMe)₂ with squemolar amts. of PhC≡C-C≡C-Ph gives the unstable five-membered titanacyclopentadiene I, which is stabilized by dimerization to yield the dinuclear complex II. In this reaction complex I shows an equilibrium and also behaves as a metallacyclopentadiene and a metal alkynyl complex. By the coupling of the internal double bond of the cyclopentadiene with a complexed triple bond of the diyne, a complex with fused titanacyclopentadiene and titanacyclopentadiene is formed. With acetone and water complex I reacts like an alkynyl complex to give the titanacyclopentadiene III and the titanoxane IV. Complex I was investigated by an X-ray structural determination

HR Structure

CAS Registry Number
192374-50-6 CAPLUS

Chemical or Trade Name
Titanium, tetrakis(η²-2,4-methylpentadien-1-yl)[1,4-diphenyl-1,3-buten-3-
ynyl]-μ-oxo [3-phenyl-1-(phenylmethyl)ene]-2-pyopyridyl]di-, (E,K)- (9CI)
(CA 210058 NIMS)



08 CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

Accession Number

1981157334 CAPLUS [Full Text](#)

Document Number

94157334

Title

Synthesis and properties of conjugated enyne polysulfones

Author/Inventor

Rainhardt, Bruce A.; Arnold, Fred E

Patent Assignee/Corporate Source

Nonmetallic Mater. Div., Air Force Mater. Lab., Wright-Patterson Air Force Base, OH, 45433, USA

Source

Journal of Polymer Science, Polymer Chemistry Edition (1981), 19(2), 271-85 CODEN JPLCAT, ISSN 0360-6376

Document Type

Journal

Language

English

Abstract

High-molecular-weight polysulfones containing 1,3-enyne linkages were prepared from K salts of (E)-1,4-bis(2-hydroxyphenyl)-1-buten-3-yne [76410-52-1] and 4,4'-dihydroxybiphenyl with bis(4-haloxyphenyl) sulfones in DMSO-sulfone. The polymers were soluble in CHCl₃ and had intrinsic viscosities >0.74 (AChMe₂, 30°C) and glass transition temps. 179-214°. Thermal anal. of cured films and of products of thermal reactions of model compounds indicated that the primary curing reaction was intermolecular, rather than the expected intramolecular cycloaddition to naphthalene derivatives. The enyne polysulfones are suitable for use as high-temperature composites.

HR Structure

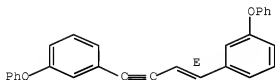
CAS Registry Number

77214-18-9 CAPLUS

Chemical or Trade Name

Benzene, 3,3'-[1-buten-3-yne-1,4-diylbis(3-phenoxy-), (E)- (9CI) (CA

INDEX NAME)



CS-CITING REF COUNT:

4

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

Accession Number

1979557429 CAPLUS [Full Text](#)

Document Number

91157429

Title

Aromatic enyne compounds

Author/Inventor

Arnold, Fred E., et al.

Patent Assignee/Corporate Source

United States Dept. of the Air Force, USA

Source

U. S. Pat. Appl., 14 pp. Avail. NTIS. CODEN XA00AV

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 946290	A0	19790427	US 1978-946290	19780927
US 4162265	A	19790724	US 1978-946290	19780927

Abstract

ROHACH CHC (broad) COH4R (I, R = OH, NH₂, 4-PhOCOCOH₂CO or other functional group suitable for polycondensation reactions), useful as monomers for thermal polymerization (no data), were prepared by catalytic coupling of ROHACH (broad) CH. Thus, 3-NDCHACH (broad) CH was acetylated, coupled by refluxing (2 h) with AuCl₃ in AcOH, then deacetylated by refluxing (1 h) in 25% aqueous NaOH to give (I) (n = 3-14).

HR Structure

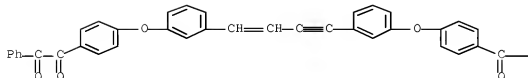
CAS Registry Number

70933-83-0 CAPLUS

Chemical or Trade Name

Ethanedione, 1,1'-[1-buten-3-yne-1,4-diylbis(3,3'-phenyleneoxy-4,4'-

phenylene)]bis(2-phenyl-), (9CI) (CA, INDEX NAME)





L12 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 1979-923539 CAPLUS E[6]30[2]

Document Number 91123539

Title

Aromatic enyne compounds and their synthesis

Author/Inventor

Arnold, Fred E., Reinhardt, Bruce A., Hedberg, Frederick L.

Patent Assignee/Corporate Source

United States Dept. of the Air Force, USA

Source

U.S. 3 pp. CODEN USXKAM

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4362263	A	19790724	US 1978-946290	19780927
US 946290	A0	19790427	US 1978-946290	19780927

Abstract

Diphenylbutenyne (R = H or OH, OC₆H₄COCOPh), useful as monomers, were prepared from the resp. RC₆H₄COPh and CH. Thus, 3-(4-ethynylphenyl)iodobenzene in HOAc containing CuOAc was heated and the product was

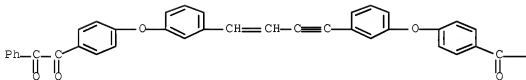
separated to yield R = 3-NH₂

HI Structure

CAS Registry Number
70933-63-0 CMLD05

Chemical or Trade Name

Ethynylbutene, 1,1'-[1-buten-3-yn-1,4-diylbis(3,1-phenyleneoxy-4,1-phenylene)]bis(2-phenyl)- (PC) (CA 205E 309E)



05 CITING REF COUNT: 2 THESE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L12 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

Accession Number 1977-440191 CAPLUS E[6]30[2]

Document Number 8740101

Title

Thermosetting acetylene-terminated poly(phenylquinoxalines)

Author/Inventor

Kovar, Robert F.; Ehlers, Gerhard F. L.; Arnold, Fred E.

Patent Assignee/Corporate Source

Res. Inst. Univ. Dayton, Dayton, OH, USA

Source

Journal of Polymer Science. Polymer Chemistry Edition (1979), 15(3), 1081-90 CODEN JPCLCAT, ESRN 0360-6376

Document Type

Journal

Language

English

Abstract

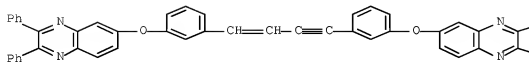
[3,4-Diaminophenyl]phenylacetylene (5C197-25-9) terminated oligomeric poly(phenylquinoxalines) were soluble (70-90%) in low boiling organic solvents and exhibited a high degree of flow at their softening temps. Thermal anal. data obtained on the oligomers indicated initial softening at approx. 160 and a strong polymerization exotherm reaching a maximum at 274°. Cured polymers (8 h, 280°) exhibited glass-transition temps. at approx. 320°. Mass spectrometry-thermogravimetry of the polymers showed that no volatiles were emitted during curing and that decomposition of the resins began at 465°.

HM Structure

CAS Registry Number
63355-28-6 CASUS

Chemical or Trade Name
Quinoxaline, 6,6'-[1-hydroxy-3-yno-1,4-diylbis(3,5-phenyleneoxy)]bis[2,3-diphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

Ph

Ph

08 CITING REF COUNT: 20 THERE ARE 20 CASUS RECORDS THAT CITE THIS RECORD (20 CITINGS)

Accession Number
1962-79498 CAPLUS Full-text
Document Number
56-79498

Title
Possible use of betaine-like methyltriphenylphosphoranes as reagents for characterization of aldehydes. II. Preparation of characteristic derivatives

Author/Inventor
Gmally-Gemiatycki, Michel; Malbec, Françoise; Carville, Josette
Patent Assignee/Corporate Source
Pac. Soc., Paris

Source
Bulletin de la Société Chimique de France (1962) 129-31 CODEN BSCFAS, ISSN: 0037-8968

Document Type
Journal

Language
Unavailable

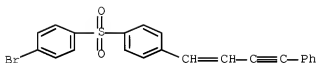
Abstract

For the preparation of characteristic derivs. of aldehydes, the use of excess reagent, absolute alc. as solvent, and NaOEt as base is recommended. In some cases dilution of the alc. up to 50% with H₂O is necessary. For differentiation of aldehydes from ketones, alc. containing 5-10% H₂O is used as solvent. Derivs. prepared from II are preferred since they are less soluble and have higher m.p. than those prepared from I. Acrolein and α-ethylacrolein gave oils. The bousile addition product of glyoxal was used, with excess NaOEt to neutralize. No bousile, even with less reagent than that corresponding to I, CHO group, a disubstituted derivative was obtained. The stereocent. configuration of the derivs. was determined by infrared and Raman spectra. The following derivs. of I and II were prepared (aldehyde, reagent, m.p. and color (if other than white) given): (CH₃O)₃P, I, 89-91°; (CH₃O)₃P, II, 123-5°; IV, 104-4°; V, II, 115-18°; C₆H₅CH=O, I, 102-3°; XVII, 144-6°; pale yellow; VII, II, 179-81°; (CH₃)₂C, II, (disubstituted derivs.) trans-trans 213°; cis-cis 200°; both yellow; HOCH₂CHO, II, 156°; VII, II, trans 143-5°; pale yellow; X, II, 169-71°; III, I, 211-12°; pale green; III, II, 226-40°; pale green; V, II, 210-11°; PhCOCH=O, II, 232-7°; 5-benzylidene-2-thiophenyl-2-thiophene, II, 218°; yellow; Me₂CH-CH(OH)-CH(OH)-I, 167°; yellow; XII, II, 233-3-5°; XII, II, 188-5°; XIV, I, 159°; XV, II, 232°; p-PhCOHCHO (XVIII), I, 182-5°; XVII, II, 174°; p-MeOC₆H₄CHO, II, 228-5°; p-peronal, II, 205-6°; m-ONC₆H₄CHO, II, trans 188-9°; cis 172-13°; both yellow; p-ONC₆H₄CHO, II, 232-3°; yellow; p-MeC₆H₄CHO, II, 259°; yellow; natural, II, 237°; 2-thiophenecarboxaldehyde, II, 241°; yellow; 5-methyl-2-thiophenecarboxaldehyde, II, 279°; yellow-green.

Hit Structure

CAS Registry Number
56165-14-6 CAPLUS

Chemical or Trade Name
Benzene, 3-[(4-bromophenyl)sulfonyl]-4-(4-phenyl-1-buten-3-yn-1-yl)- (CA
130353-0006)



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